

PLASTICS RECOGNIZED COMPONENT DIRECTORY 2012

This Directory contains all Recognitions in effect as of March 1, 2012 for categories covered.

UL Online Certifications Directory Recognitions are updated daily. To confirm the current status of any UL record, consult UL's Online Certifications Directory at www.ul.com/database

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Plastics

Recognized Component Directory

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Introduction

This Directory contains the names of companies authorized to use the UL Recognized Component Mark on or in connection with components that have been investigated by UL and found to be in compliance with UL's requirements. These companies, as well as the manufacturers and submitters of the components, have entered into an Agreement with UL to use the UL Recognized Component Marking only on or in connection with components manufactured in compliance with UL's requirements. It should be noted that the Recognized Components of different makes or model designations are not necessarily equivalent in quality or performance.

For information concerning Recognized Components, refer to UL's Recognized Component Directory section.

UL investigations of products or equipment for the UL Listing/Classification Mark generally include an evaluation of the suitability of components (i.e. relays, switches, plastics, etc.) for use in the specific end-product. Recognized Components are intended for factory installation in end-products or equipment where the limitations of use are known to the end-product manufacturer and where their use is within such limitations as evaluated by UL. The conditions of acceptability of the Recognized Component need to be compatible with the specific end-product application.

Since these components may be incomplete in construction and/or restricted in performance capabilities, they are not certified by UL for use as field-installed components.

UL's Component Recognition Service evaluates components by establishing performance requirements and/or construction requirements for use in specific end-product applications.

The appearance of catalog or model numbers or other specific component designations in this Directory signifies that: (1) representative samples of these components have been submitted to UL and found to comply with the applicable requirements, and that (2) the manufacturer has been authorized to use the Recognized Component Marking on production that continues to comply with UL's requirements and is subject to UL's Follow-Up Service. Since manufacturers are not obligated to apply the UL Mark on all of their production, components that do not bear the UL Recognized Component Marking are not required by UL to comply with UL's requirements. The manufacturer's products are not subject to UL's Follow-Up Service unless they bear the UL Recognized Component Marking. **Only those components bearing the appropriate UL Recognized Component Marking should be considered as being covered by UL's Recognition and Follow-Up Service.**

The Plastics Recognized Component Directory is intended to assist manufacturers who may wish to use a Recognized Component in their end products. For some components, part or all of the use conditions and ratings are indicated in the Component Category Guide Information and the individual Recognitions. Information and limitations on the component can be obtained by contacting the component manufacturer at the address specified for the individual Recognition in the Directory.

This Directory contains UL Recognitions in effect as of March 1, 2012. Records of Recognitions issued or withdrawn after this date will be found in UL's Listing Information database. In addition, Recognitions issued after the effective date will be found in UL's Online Certifications Directory at www.ul.com and will appear in the next annual printed Directory.

Users of this Directory are urged to read carefully the following sections for an understanding of the extent of UL's services.

Use of this Directory

This Directory provides the following:

- General Guide Information for each component category that includes references to the requirements used for the investigation of the component and the UL Recognized Component Marking to be used on the component;
- Information relating to limitations or special conditions applying to the component.
- Names of companies that are authorized to provide components bearing the UL Recognized Component Marking;

The companies whose names appear in this Directory may not be the manufacturer of the component but are qualified to provide components that bear the UL Recognized Component Marking.

UL Plastic Component Recognitions are arranged alphabetically in this Directory by component category and alphabetically by company name under each category.

Under individual categories, each company is assigned an alphanumeric file number (starting with letters such as AU, BP, E, EX, MH, MP, MQ, R, S or SA). This number may not be required to be marked on the component. The file number can be used to identify a particular company and the associated category.

To assist in the use of the Directory, an Index of Product Categories, an Index of Companies and a List of Company Identifications are provided (see Table of Contents). The List of Company Identifications contains the trade names or trademarks of companies authorized to use such identification in place of the company name.

UL's General Guide Information at the beginning of each component category provides important information regarding the scope and limitation of the Component Recognitions and a general description of the UL Recognized Component Marking authorized for use in that category.

This information may include the identification of published standards that have been used to investigate components in that category. There may not be a published standard against which a component can be tested and evaluated to determine its acceptability for the UL's Component Recognition Service. If no applicable published standard is available, UL will exercise its judgement in the selection of applicable requirements from standards and other sources and will develop requirements for uses and conditions for which specific requirements did not previously exist.

The scope of each UL Standard for Safety and Outline of Investigation can be accessed at <http://ulstandardsinfonet.ul.com>.

The information in the individual UL Plastic Component Recognitions varies from category to category depending on the needs of the users of the Directory. To obtain additional information for a particular UL Plastic Component Recognition or information on UL Listed and Classified products and UL Recognized Components, contact the Customer Experience Center by telephone: +1.877.UL.HELPS (1.877.854.3577) or e-mail at cec.us@us.ul.com.

The Index of Product Categories may be used to locate the category in which the component appears. If the marking on the component (or carton where permitted) agrees with the marking specified in this Directory, the component may be considered as UL Recognized for that category.

Prefixed or suffixed model or catalog designations are not Recognized unless specifically identified in this Directory.

The letters and numbers (shown in parentheses) following each category title are the category code designations.

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Identification of UL Recognized Components

Plastic Components Recognized under UL's Component Recognition and Follow-Up Services are identified by the UL Recognized Component Marking. Except where otherwise specified in the General Guide Information, the UL Recognized Component Marking consists of the Recognized company identification /name and catalog number, model number, or other designation as shown in this Directory.

The UL Recognized Component Mark is required when specified in the General Guide Information for specific plastic component categories or under the "Marking" for the individual company. Only those plastic components which bear the UL Marking as specified in this Directory are to be considered as being covered under UL's Recognition and Follow-Up Service.

When the General Guide Information for a plastic component category does not require the use of the UL Recognized Component Mark, this "Mark," as illustrated below, may, at the manufacturer's option, be used in conjunction with the required Recognized Markings as a supplementary means of identifying components that have been produced under UL's Component Recognition and Follow-Up Service.

UL's Recognized Component Mark is registered with the U.S. Patent and Trademark Office, and in numerous other countries, as a certification mark. When used, the UL Recognized Component Mark must be in proximity to the Recognized company identification /name and catalog number, model number, or other applicable component designation.

The UL Recognized Component Mark is as shown below:



Specifying UL Recognized Components

Specifying UL Recognized Plastic Components up front is one of the best methods used by product designers to help expedite product safety investigations of end-use products. A typical specification reads: "The [component] must be UL Recognized." Or, if the specification cannot be that specific, an alternate wording would read: "The [component] must meet the requirements of UL. The UL Recognized Component Marking on the component will be accepted as evidence of compliance"

Products, equipment and materials evaluated by UL in accordance with international or regional standards only are intended for installation and use where the specified standards have been adopted.

2012 PLASTICS RECOGNIZED COMPONENT DIRECTORY

PLASTIC MATERIALS (PHAR2)

PLASTIC MATERIALS (PHAR2)

GENERAL

This category covers plastic materials evaluated in accordance with IEC/ISO Publications.

To determine compliance of a material for specific application, the test values generated for that material should be compared with the minimum performance level established for that application as outlined in the product standard or specification.

GENERIC MATERIAL SYMBOLS

The following symbols are used in the individual Recognitions to represent the generic material type. The generic material symbols are based upon the terminology developed in ISO 61043, "Plastics – Symbols" and ISO 61629, "Rubbers and Latexes."

Generic Mtl

Acrylonitrile Butadiene Styrene
Acetal (Polyoxymethylene)
Alkyd (Molding Compound)
Cellulose Acetate
Cellulose Acetate Butyrate
Cellulose Acetate Propionate
Chloroprene Rubber
Diallyl Phthalate
Epoxy, Epoxide
Ethylene Propylene Rubber
Ethylene / Propylene
Ethylene / Vinyl Acetate
Ethylene / Tetrafluoroethylene
Melamine-Formaldehyde
Melamine / Phenolic
Methyl Pentene Polymer
Natural Rubber
Neoprene (Chloroprene Butadiene) Rubber
Nitrile Rubber
Perfluoralkoxy Copolymer
Phenolic (Phenol-Formaldehyde)
Polyamide (Nylon)
Polyarylate
Polybutadiene Rubber
Polybutylene Terephthalate
Polycarbonate
Polycarbonate / Acrylic
Polychlorotrifluoroethylene
Polyetheretherketone
Polyethersulfone
Polyethylene
Polyethylene Terephthalate
Perfluoroethylene Propylene
Polyimide
Polymethyl Methacrylate
Polyphenylene Oxide
Polyphenylene Sulfide
Polypropylene
Polystyrene
Polysulfone
Polytetrafluoroethylene
Polyurethane
Polyvinyl Chloride
Polyvinylidene Fluoride
Polyvinyl Fluoride
Silicone
Silicone Rubber
Styrene Acrylonitrile
Styrene Butadiene
Styrene (Butadiene) Rubber
Styrene / Methylmethacrylate
Urea-Formaldehyde
Unsaturated Polyester

Symbol

ABS
POM
AMC
CA
CAB
CAP
CR
DAP
EP
EPDM
E/P
E/VAC
E/TFE
MF
M/P
PMP
NR
CBR
NBR
PFA
PF
PA
PAR
PBR
PBT
PC
PC/A
PCTFE
PEEK
PES
PE
PET
FEP
PI
PMMA
PPHOX
PPS
PP
PS
PSU
PTFE
PUR
PVC
PVDF
PVF
SI
SIR
SAN
SB
SBR
S/MMA
UF
UP

Abbreviation

AL
ALL
BG
BK
BL
BZ
GN
GY
IV
NC
OR
PK
RD

Col

Aluminum
Any color
Beige
Black
Blue
Bronze
Green
Gray
Ivory
Natural (no pigmentation)
Orange
Pink
Red



Abbreviation

TN
VT
WT
YL

Col

Tan
Violet
White
Yellow

UL, in performing its functions in accordance with its objectives, does not assume or undertake to discharge any responsibility of the manufacturer or any other party. UL shall not incur any obligation or liability for any loss, expense or damages, including incidental or consequential damages, arising out of or in connection with the use, interpretation of, or reliance upon this Guide Information.

ELECTRICAL PROPERTY CHARACTERISTICS CERTIFIED IN ACCORDANCE WITH IEC/ISO PUBLICATIONS (PHCA2)

The materials covered under this category are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete products submitted for investigation rather than for direct separate installation in the field. THE FINAL ACCEPTANCE OF THE COMPONENT IS DEPENDENT UPON ITS INSTALLATION AND USE IN COMPLETE PRODUCTS SUBMITTED TO UL.

GENERAL

Plastics covered under this category are Recognized under the category of Plastics (QMFZ2) and have also been certified in accordance with IEC 60829, "Methods of Test for the Determination of the Ignitibility of Solid Electrical Insulating Materials When Exposed to Electrically Heated Wire Sources," IEC 60950, "Safety of Information Technology Equipment Including Electrical Business Equipment," or IEC 60112, "Method for Determining the Comparative and the Proof Tracking Indices of Solid Insulating Materials Under Moist Conditions." To determine compliance of a material for a specific application, the test values generated for that material should be compared with the minimum performance level established for that application as outlined in the appropriate product standard or specification.

These materials have been tested in accordance with standard small-scale test methods to define their electrical properties with respect to electrical track resistance and ability to resist ignition in order to facilitate evaluation of their use in end-product applications. The small-scale test data is intended solely for determining the electrical properties of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by the appropriate certification agency.

Electrical Properties — Performance may be evaluated with respect to electrical track resistance and ability to resist ignition from electrical sources. Tests are conducted in accordance with ANSI/UL 746A, "Polymeric Materials – Short-Term Property Evaluations," and the corresponding IEC Standard, and are performed using a 60 Hz source, unless otherwise specified.

Hot-wire Ignition (HWI) — Conducted in accordance with ANSI/UL 746A and IEC 60829 (1988 edition). Performance is expressed as the mean number of seconds needed to either ignite standard specimens or to burn through the specimens without ignition. The specimens are wrapped with resistance wire that dissipates a specified level of electrical energy.

High-ampere Arc Ignition (HAI) — Conducted in accordance with ANSI/UL 746A and IEC 60950 (1986 edition). Performance is expressed as the number of arc rupture exposures (standardized as the electrode type and shape and electric circuit) which are necessary to ignite a material when they are applied at a standard rate, either on the surface of the material (OS) or at a specified distance from it (AS).

Comparative Tracking Index (CTI) — Conducted in accordance with ANSI/UL 746A and IEC 60112 (1979 edition). It is expressed as that voltage which causes tracking on a material after 50 drops of 0.1% ammonium chloride solution has fallen. The results of testing the nominal 3 mm thickness are considered representative of the material's performance in any thickness.

Unless otherwise indicated in the individual Recognitions, the values shown apply to the unfoamed or solid material form. Materials which have been foamed with the introduction of a chemical blowing agent or inert gas may have significantly different properties than the unfoamed or solid material form.

UL MARKING

Materials Recognized under UL's Component Recognition Program are identified by markings consisting of the Recognized company's identification and material designation. In addition, materials produced under the UL Component Recognition Program will also bear the

Recognized Component Mark . The statement "Also Evaluated by Underwriters Laboratories Inc. in accordance with IEC/ISO _____" or, as an alternate, "Component IEC/ISO _____," may appear adjacent to the marking.

The Listing or Classification Mark of UL is not authorized for use on, or in connection with, Recognized Components. Only those components that actually bear the "Marking" should be considered as being covered under the Component Recognition Program.

UL, in performing its functions in accordance with its objectives, does not assume or undertake to discharge any responsibility of the manufacturer or any other party. UL shall not incur any obligation or liability for any loss, expense or damages, including incidental or consequential damages, arising out of or in connection with the use, interpretation of, or reliance upon this Guide Information.

DOW QUIMICA DE COLOMBIA S A

E142350

TRANSVERSAL 18 NO 78-80 APARTADO AEREO NO 75240,
BOGOTA, DE COLOMBIA

Mtl Dsg	Col	Min Thk (mm)	HWI	HAI OS/AS	CTI
High impact polystyrene (PS), furnished in the form of pellets.					
STYRON*478	All	1.47	14	200/200	—
		2.03	17	200/200	—
		3.05	25	200/200	600
General purpose polystyrene (PS), furnished in the form of pellets.					
STYRON 685D(a)	All	1.47	9	178/ —	—
		3.05	23	110/ —	300

(a)Material designation may have this suffix "-W1" .

(*)Trademark of The Dow Chemical Company.

Marking: Company name and material designation on container, wrapper or molded on finished part.

FORMEX,DIV OF IL TOOL WORKS INC,FRMRLY

E121855

FASTEX,DIV OF IL TOOL WORKS INC
1701 W ARMITAGE CT, ADDISON IL 60101

Mtl Dsg	Col	Min Thk (mm)	HWI	HAI OS/AS	CTI
Polypropylene (PP), furnished as profile extruded panels.					
FORMEX GK-(a)(b) Panels#@	All	5.8	9##	162+ / 200+	600+



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Electrical Property Characteristics Certified in Accordance with IEC/ISO Publications (PHCA2)—Continued

Mtl Dsg	Col	Min Thk (mm)	HWI	HAI OS/AS	CTI	
Polypropylene (PP), furnished as sheets.						
FORMEX GK-(a)(b)@	All	0.05	8##	200+ / 200+	—	
		0.10	9##	200+ / 200+	—	
		0.21	7##	200+ / 200+	—	
		0.37	9	162+ / 200+	600+	
		0.71	12	200+ / 200+	—	
FORMEX-(a)(b)@	NC	3.0	91	200+ / 200+	—	
		0.20	6##	113+ / 200+	—	
		0.41	11	23 / 200	—	
		ALL	0.75	21	195 / —	—
			2.4	30	200+ / —	—
	3.0		36	200+ / —	600+	
	0.75		21	195 / —	—	
	3.0		36	200+ / —	600+	
	Polypropylene (PP), static dissipative treated, furnished as sheets.					
	STATEx-(a)(b)@	NC	0.20	6##	113+ / 200+	—
0.41			11	23 / 200	—	
ALL		0.75	21	195 / —	—	
		2.4	30	200+ / —	—	
		3.0	36	200+ / —	600+	

#-Formex GK-(a)(b) Panel thickness indicated is overall part thickness. Minimum rib and face thickness of 0.41mm must be maintained.

(a)-One to three digit suffix indicating nominal thickness in mils.

(b)-May have an additional letter suffix indicating color.

@-CTI is a thickness independent test; see rating at thickness tested.

##-Sample melted through at time indicated. Actual ignition time is indeterminable.

Marking: Company name and material designation on container, wrapper or molded on finished part.

IDEMITSU KOSAN CO LTD

E48268

1-1 MARUNOUCHI 3-CHOME CHIYODA-KU, TOKYO 100-0005 JAPAN

Mtl Dsg	Col	Min Thk (mm)	HWI	HAI OS/AS	CTI
Ignition resistant crystalline polymer, furnished in the form of pellets.					
EA 513	All	0.75	19	120 / 120	—
		1.50	42	120 / 120	—
		3.00	120	120 / 120	570
EA 514(+)	All	1.47	120	107 / 200	—
		3.05	120	87 / 200	280
EA 522(+)	All	3.05	120	200 / 200	—
		1.47	105	200 / 200	520
EA 528	All	3.05	120	200 / 200	520
EA 533(+)	All	1.47	118	200 / 200	—
		3.05	120	200 / 200	320
EA 535	All	1.47	120	200 / 200	—
		3.05	120	175 / 200	—
EA 540(+)	All	1.47	36	200 / 200	—
		3.05	60	200 / 200	300
EA 543(+)	All	1.47	118	200 / 200	260
		3.05	120	200 / 200	—
EA510	All	0.71	103	200 / 200	—
		1.47	93	200 / 200	—
		3.05	120	200 / 200	300
XU72113.09	All	0.75	12	200 / 200	—
Note: (+)Recognition valid up to 50% regrind.					
Crystalline polymer (PS), furnished in the form of pellets.					
WA202	All	1.5	63	150 / 200	—
		3.0	120	135 / 200	440
WA204	All	1.5	109	200 / 200	—
		3.0	120	147 / 200	560
WA206 , WA214LG	All	1.5	120	154 / 200	—
		3.0	107	132 / 200	380
WA210 , WA210LG	All	1.5	20	196 / 200	—
		3.0	120	200 / 200	340
WA212 , WA212LG	All	1.5	47	200 / 200	—
		3.0	120	200 / 200	360
WA550	All	1.5	103	148 / 200	—
		3.0	110	149 / 200	480
WA552	All	1.5	120	200 / 200	—
		3.0	120	154 / 200	560
WA 5030	All	1.5	10	200 / -	—
		3.0	11	200 / -	300
N WA 7010	All	1.5	6	200 / -	—
		3.0	7	200 / -	450
N WA 7020	All	1.5	7	200 / -	—
		3.0	8	200 / -	400
N WA 7030	All	1.5	7	200 / -	—
		3.0	9	200 / -	300

Marking: Company name or trademarks 出光石油化学株式会社, 出光興産株式会社 or tradename "IDEMITSU PETROCHEMICAL CO LTD" and material designation on container or wrapper.

POLYKEMI AB

BOX 14 BRONSGATAN 8 SE-271 00, YSTAD SWEDEN



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2012 PLASTICS RECOGNIZED COMPONENT DIRECTORY

4

PLASTIC MATERIALS (PHAR2)

Electrical Property Characteristics Certified in Accordance with IEC/ISO Publications (PHCA2)—Continued

Mtl Dsg	Col	Min Thk (mm)	HWI	HAI OS/AS	CTI
Polypropylene homopolymers (PP), furnished in the form of pellets.					
PPH T5020 VT2(X)	BK	1.47	16	120/120	—
		3.05	22	120/120	—
PPH T4038(X)	WT	1.47	16	120/120	—
		3.05	26	120/120	—
PPH T1010(X)	All	3.05	32	— / —	600
PPH T10(D)(X)	All	3.05	32	— / —	600
PPH T1040(X)	All	3.05	70	— / —	600
PPH GF(C)10(X)	All	3.05	38	— / —	600
PPH GF(C)11-29(X)	All	3.05	38	— / —	600
PPH GF(C)30(X)	All	3.05	89	— / —	600
Polypropylene copolymer (PP), furnished in the form of pellets.					
PPHC K8040G(X)	NC	1.50	21	120/120	—
		3.05	26	120/120	—
PPC K2040H(X)	NC	1.50	26	120/120	—
		3.05	26	120/120	—
PPC K(C)10(X)	All	3.05	45	— / —	600
PPC K(C)(D)(X)	All	3.05	45	— / —	600
PPC K(C)40(X)	All	3.05	45	— / —	600
Polyelast BLX-102(X)	All	1.50	21	200/200	—
		3.05	31	200/200	600
Polycarbonate (PC), furnished in the form of pellets.					
PCS75R(X)	All	1.50	22	120/120	—
		3.05	34	120/120	280
PCS60R GF(a)(X)	NC	3.05	75	— / —	180
PCS60R GF30(X)	NC,WT, RD	1.50	96	— / —	—
	NC,BK	3.05	120+	— / —	180
PCS60R GF10 V0(X)	All	1.65	92	28/200+	—
		3.05	120+	45/200+	120
PCS60R GF30UV(X)	All	1.50	120+	144/200+	—
		3.05	120+	14/200+	190
Acrylonitrile butadiene styrene (ABS), furnished in the form of pellets.					
ABSF00(X)	All	1.50	10	200/200	—
		3.05	9	200/200	600
ABSF10-F40(X)	All	1.50	—	— / —	—
		3.05	9	— / —	560
ABSF50(X)	All	1.50	—	— / —	—
		3.05	10	— / —	560
ABSGF10(X)	BK	1.50	10	200/200	—
		3.05	10	200/200	600
ABSGF20(X)	BK	1.50	11	200/200	—
		3.05	11	200/200	600
ABSH00(X)	All	1.50	10	200/200	—
		3.05	10	200/200	600
ABSHH0(X)	All	1.50	10	200/200	—
		3.05	10	200/200	600
ABSN(A)(X)	All	1.50	9	—	—
		3.05	11	200/200	440
ABSS(A)(X)	All	1.50	9	200/200	—
		3.05	9	200/200	460
ABSV00(X)	All	3.05	112	— / —	420
ABSV0X(X)	All	1.70	100	— / —	—
		3.09	118	200/200	600
ABSX00(X)	All	1.50	10	200/200	—
		3.05	13	200/200	600
ABSXX0(X)	All	1.50	10	200/200	—
		3.05	13	200/200	600
Styrene acrylonitrile (SAN), furnished in the form of pellets.					
SAN20HH(X)	NC	1.62	46	— / —	—
	NC,RD	3.05	120	— / —	520
Polyamide (PA), furnished in the form of pellets.					
PA6B201E ZF40(X)	NC,RD	3.05	120	200/200	600
Polycarbonate/acrylonitrile butadiene styrene (PC/ABS), furnished in the form of pellets.					
PC/ABS	All	1.54	36	— / —	—
65V(X)		3.15	87	200/200	240
PC/ABS 45FS(X)	All	3.05	23	200/200	600
PC/ABS (Z)FS(X)	All	3.05	23	200/200	300
PC/ABS 85FS(X)	All	3.05	34	200/200	300
Polybutylene terephthalate (PBT), furnished in the form of pellets.					
PBT223	All	1.53	35	— / —	—
GF(a)FR(X)		3.15	75	200/200	240
PBT223	All	1.53	44	— / —	—
GF30FR(X)		3.15	82	200/200	280
Polystyrene (PS), furnished in the form of pellets.					
PS M4 UV(X)	NC,WT	3.05	26	— / —	540

(a)is replaced with 11 to 29 incl.

(A)is a 2 digit code, 00 to 30 incl.

(C)is a 2 or 3 digit code, 10 to 200 incl.

(D)is a 2 digit code, 11 to 39 incl.

(X)is a four digit color code.

(Z)is a 2 digit code, 46 to 84 incl.

Marking: Company name and material designation on container or wrapper.



Documents

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Electrical Property Characteristics Certified in Accordance with IEC/ISO Publications (PHCA2)—Continued

PS JAPAN CORP**E193707**

1-4-1 KOISHIKAWA BUNKYO-KU, TOKYO 112-0002 JAPAN

Mtl Dsg	Col	Min Thk (mm)	HWI	HAI OS/AS	CTI
Polystyrene, furnished in the form of pellets.					
VS12(d)	All	1.40	11	— / —	—
	All	3.20	25	— / —	—
VS55	All	2.50	13.5	200+ / —	—
	All	3.20	21	120+ / —	—

(d)=Any one digit 0 thru 9.

Marking: Company name, material designation and the Recognized Component Mark  on container or wrapper.**SPARTECH PLASTICS****E52355**

3454 N DETROIT ST, WARSAW IN 46580

Mtl Dsg	Col	Min Thk (mm)	HWI	HAI OS/AS	CTI
Polyvinyl chloride (PVC) bonded to Acrylonitrile-butadiene-styrene/ Polyvinyl chloride (ABS/PVC), furnished in the form of sheets.					
R87* / 59*	All	3.05	120+	200+@ / 200+@	500+
Acrylonitrile-butadiene-styrene/Polyvinyl chloride alloy (ABS/PVC), furnished in the form of sheets or finished product.					
R59*, R59 / 59*, R59* / 59*	All	3.05	120+	200+ / 200+	500+
Acrylonitrile-butadiene-styrene/Polyvinyl chloride alloy (ABS/PVC), furnished in the form of pellets.					
R59M* Type A	All	3.05	120+	200+ / 200+	500+
Polyvinyl chloride/Acrylic, furnished in the form of sheets or finished products.					
R52*, R52* / R52*, R60* / R52*, DKE400*, R60* / DKE400*	All	3.05	120+	200+ / 200+	500+
R523*	BK	3.05	120+	200+ / 200+	500+
R60* / R59*	All	3.05	120+	200+ / 200+	500+
Polyvinyl chloride/Acrylic, furnished in the form of pellets.					
R52M* Type A	All	3.05	120+	200+ / 200+	500+

Mtl Dsg	Col	Min Thk (mm)	IEC 707 Flame Class	ISO 1210 Flame Class
Acrylonitrile-butadiene-styrene/Polyvinyl chloride blend (ABS/PVC), furnished in the form of sheets or finished products.				
R56* / R56*	All	1.21	FV0	FV-0

*Followed by a four or five digit number.

@Conducted on ABS side of material.

Marking: Company name or tradename "Royalite" and material designation on container, wrapper or molded on finished part.

STYRON (HONG KONG) LTD**E73656**TSING YI R & D LABORATORY 40-50 TSING YI RD, TSING YI
ISLAND N T HONG KONG

Mtl Dsg	Col	Min Thk (mm)	HWI	HAI OS/AS	CTI
High impact polystyrene (PS), furnished in the form of pellets.					
Styron* 450	NC	1.47	11	200 / 200	—
		2.03	11	200 / 200	—
		3.05	14	200 / 200	400
Styron 470	All	1.47	13	200 / 200	—
		2.03	14	200 / 200	—
		3.05	11	200 / 200	450
Styron 486B	All	1.47	11	200 / 200	—
Note: *Trademark of The Dow Chemical Co.					
Styron 498, Styron XL-8023VC	All	1.47	16	122 / 200	—
		2.03	22	200 / 200	—
		3.05	25	200 / 200	580
General purpose polystyrene (PS), furnished in the form of pellets.					
STYRON 630A	All	1.47	18	200 / 200	—
		3.05	21	200 / 200	500
STYRON 666D, 656D	All	1.47	10	200 / 200	—
STYRON 685, 685P	All	1.47	9	178 / 200	—
		3.05	23	110 / 200	300
Ignition resistant polystyrene (PS), furnished in the form of pellets.					
Styron 6075	All	1.02	11	200 / 200	—
		1.27	11	200 / 200	—
		1.47	23	200 / 200	—
		2.03	26	200 / 200	—
		3.05	42	200 / 200	500
Styron 6087SF (foamed)	All	6.35	42	200 / 200	280
XQ82249.03	BK	2.00	11	200 / 200	—
		3.00	17	200 / 200	240

Marking: Company name or tradename "Dow Chemical Pacific Ltd" and material designation on container or wrapper.

STYRON L L C

MICHIGAN OPERATIONS 433 BLDG, MIDLAND MI 48667

**Documents****E54680**

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2012 PLASTICS RECOGNIZED COMPONENT DIRECTORY

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PLASTIC MATERIALS (PHAR2)

Electrical Property Characteristics Certified in Accordance with IEC/ISO Publications (PHCA2)—Continued

Mtl Dsg	Col	Min Thk (mm)	HWI	HAI OS/AS	CTI
High impact polystyrene (PS), furnished in the form of pellets.					
STYRON 482	All	1.47	120	200/200	—
		3.05	120	200/200	360
High impact polystyrene (PS), furnished in the form of pellets.					
STYRON	All	1.47	16	122/200	—
XL-8023VC		2.03	22	200/200	—
		3.05	25	200/200	580
General purpose polystyrene (PS), furnished in the form of pellets.					
STYRON 6077(h)	All	1.50	40	181/200	—
		3.00	52	200/200	240
		4.25	85	175/200	220
STYRON 6079	All	1.47	34	200/200	—
		3.05	53	200/200	220
Ignition resistant polystyrene (PS), furnished in the form of pellets.					
STYRON A-TECH 2220	All	1.5	12	200/200	—
		3.0	—	—/—	280
STYRON A-TECH 6079	All	1.5	8	200/—	—
		3.0	14	200/—	200
XU 70051.0X	All	1.5	8	200/—	—
		3.0	14	200/—	200

(a)Material designation may have the suffix “-W1”.

(h)Density range: 0.92-1.15 g/cc at 4.3 mm. Material may have suffix “H” to indicate high melt flow.

(i)Density range: 0.96-1.16 g/cc at 3.0 mm and 0.77-1.16 g/cc at 6.0 mm.

(+)Recognition valid up to 75% regrind.

Each product designation listed above may be followed by a numeric/or alpha-numeric suffix representing color and/or granulation and/or lubrication, where appropriate, for each material's specific Recognition.

Marking: Company name or tradename “Styron” or “The Dow Chemical Co.” and material designation on container, wrapper or molded on finished part.

THE DOW CHEMICAL CO

E124501

MAGNUM ABS RESINS 2040 DOW CENTER, MIDLAND MI
48674

Mtl Dsg	Col	Min Thk (mm)	HWI	HAI OS/AS	CTI
Acrylonitrile butadiene styrene (ABS), furnished in the form of pellets.					
MAGNUM* 213	All	1.47	10	50/59	—
		3.05	—	—/—	400+
MAGNUM 275	—	—	—	—/—	—
MAGNUM 340	—	—	—	—/—	—
MAGNUM 341	—	—	—	—/—	—
MAGNUM 342EZ	ALL	1.47	9	35/50	—
		3.05	—	—/—	450
MAGNUM 345	—	—	—	—/—	—
MAGNUM 348	All	1.47	9	35/50	—
		3.05	—	—/—	450+
MAGNUM 358HP	All	1.47	21	200/200	—
		3.05	35	200/200	360
MAGNUM 541	All	1.47	9	48/36	—
		3.05	—	—/—	400+
MAGNUM 545	All	1.47	9	48/36	—
		3.05	—	—/—	400+
MAGNUM 555	All	1.47	17	156+/200+	—
		3.05	22	200+/200+	600+
MAGNUM 585	All	1.47	17	156+/200+	—
		3.05	22	200+/200+	600+
MAGNUM 941	All	1.47	9	50/45	—
		3.05	—	—/—	600
MAGNUM 3495	All	1.47	10	200/200	—
		3.05	9.4	200/200	280
MAGNUM 5200(+)	All	1.47	117	200/200	—
		3.05	91	200/200	480
MAGNUM 9010	All	1.47	12	73/106	—
		3.05	—	—/—	400
MAGNUM 9020	All	1.47	11	95/63	—
		3.05	—	—/—	600+
MAGNUM 9030	All	1.47	12	200+/200+	—
		3.05	—	—/—	600+
MAGNUM 9035	All	1.47	9.2	200/200	—
		3.05	10.8	200/200	300
MAGNUM 9085	All	1.47	8.4	200+/200+	—
		3.05	14	200+/200+	520
MAGNUM 9095	All	1.47	12	200+/200+	—
		3.05	15	200+/200+	600+
MAGNUM 9555	All	1.47	11	200+/-	—
		3.05	17	200+/-	600+
MAGNUM 9575	All	1.47	15	200/200	—
		3.05	23	200/200	—
MAGNUM 9650	All	1.47	11	200+/-	—
		3.05	17	200+/-	600+
ABS70	All	1.47	11	200+/-	—
		3.05	17	200+/-	600+
MAGNUM AG700	—	—	—	—/—	—
MAGNUM HPC952	—	—	—	—/—	—



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2012 PLASTICS RECOGNIZED COMPONENT DIRECTORY

PLASTIC MATERIALS (PHAR2)

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Mtl Dsg	Col	Min Thk (mm)	HWI	HAI OS/AS	CTI
XU90052.01	All	1.47 3.05	15 23	200/200 200/200	— 300

Each product designation listed above may be followed by a numeric/or alpha-numeric suffix representing color and/or granulation and/or lubrication, where appropriate, for each material's specific Recognition.

(+)-Recognition valid up to 60% regrind.

*Trademark of The Dow Chemical Co.

Marking: Company name or trademark "MAGNUM" and material designation on container, wrapper or molded on finished part.

THE DOW CHEMICAL CO

E200929

POLYOLEFIN RESINS 2040 DOW CENTER, MIDLAND MI 48674

Mtl Dsg	Col	Min Thk (mm)	HWI	HAI OS/AS	CTI
Polypropylene (PP), furnished in the form of pellets.					
C103-04	All	3.0	77	200/200	600
H700-12	All	3.0	52	200/200	600
INSPIRE D212.00	All	1.5 3.0	13 25	200/- 200/-	— 600
XPR-1267-D-200204-84	All	1.5 3.0	11 23	200/- 200/-	— 600

Marking: Company name and material designation on container or wrapper.

THE DOW CHEMICAL CO

E161817

QUESTRA CRYSTALLINE POLYMERS 2040 DOW CENTER,
MIDLAND MI 48674

Mtl Dsg	Col	Min Thk (mm)	HWI	HAI OS/AS	CTI
Ignition resistant crystalline polymer, furnished in the form of pellets.					
QUESTRA EA 513	All	0.75 1.50 3.00	19 42 120	120/120 120/120 120/120	— — 570
QUESTRA EA 514(+)	All	1.47 3.05	120 120	107/200 87/200	— 280
QUESTRA EA 522(+)	All	3.05	120	200/200	—
	All	1.47	105	200/200	520
QUESTRA EA 528	All	3.05	120	200/200	520
QUESTRA EA 533(+)	All	1.47 3.05	118 120	200/200 200/200	— 320
QUESTRA EA 535	All	1.47 3.05	120 120	200/200 175/200	— —
Questra EA 540(+)	All	1.47 3.05	36 60	200/200 200/200	— 300
QUESTRA EA 543(+)	All	1.47 3.05	118 120	200/200 200/200	260 —
QUESTRA EA510	All	0.71 1.47 3.05	103 93 120	200/200 200/200 200/200	— — 300
XU72113.09	All	0.75	12	200/200	—
Note: (+)Recognition valid up to 50% regrind.					
Crystalline polymer (PS), furnished in the form of pellets.					
QUESTRA WA202	All	1.5 3.0	63 120	150/200 135/200	— 440
QUESTRA WA204	All	1.5 3.0	109 120	200/200 147/200	— 560
QUESTRA WA206 , WA214LG	All	1.5 3.0	120 107	154/200 132/200	— 380
QUESTRA WA210 , WA210LG	All	1.5 3.0	20 120	196/200 200/200	— 340
QUESTRA WA212 , WA212LG	All	1.5 3.0	47 120	200/200 200/200	— 360
QUESTRA WA550	All	1.5 3.0	103 110	148/200 149/200	— 480
QUESTRA WA552	All	1.5 3.0	120 120	200/200 154/200	— 560
QUESTRA WA 5030	All	1.5 3.0	10 11	200/— 200/—	— 300
QUESTRA N WA 7010	All	1.5 3.0	6 7	200/— 200/—	— 450
QUESTRA N WA 7020	All	1.5 3.0	7 8	200/— 200/—	— 400
QUESTRA N WA 7030	All	1.5 3.0	7 9	200/— 200/—	— 300

Marking: Company name and material designation on container or wrapper.

THE DOW CHEMICAL CO

TYRIL STYRENE-ACRYLONITRILE RESINS 2040 DOW CENTER,
MIDLAND MI 48674

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Electrical Property Characteristics Certified in Accordance with IEC/ISO Publications (PHCA2)—Continued

Mtl Dsg	Col	Min Thk (mm)	HWI	HAI OS/AS	CTI
TYRIL* 100	All	1.47 3.05	9 11	200/200 200/200	— 360
TYRIL 880	All	1.47 3.05	12 15	88/— 200/—	— 360
TYRIL 880B	All	1.47 3.05	12 15	109/— 200/—	— 360

*Trademark of The Dow Chemical Co.

Each product designation listed above may be followed by a numeric/or alpha-numeric suffix representing color and/or granulation and/or lubrication, where appropriate, for each material's specific Recognition.

Marking: Company name and material designation on container, wrapper or molded on finished part.

FLAMMABILITY CHARACTERISTICS CERTIFIED IN ACCORDANCE WITH IEC/ISO PUBLICATIONS (PHDL2)

The materials covered under this category are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete products submitted for investigation rather than for direct separate installation in the field. THE FINAL ACCEPTANCE OF THE COMPONENT IS DEPENDENT UPON ITS INSTALLATION AND USE IN COMPLETE PRODUCTS SUBMITTED TO UL.

GENERAL

Plastics covered under this category are Recognized under the category of Plastics (QMFZ2) and have also been certified in accordance with IEC 60707, "Methods of Test for the Determination of the Flammability of Solid Electrical Insulating Materials When Exposed to an Ignition Source," ISO 61210, "PLASTICS – Determination of Flammability Characteristics of Plastics in the Form of Small Specimens in Contact with a Small Flame," ISO 69772, "Cellular Plastics – Determination of Horizontal Burning Characteristics of Small Specimens Subjected to a Small Flame," or ISO 69773, "Plastics – Determination of Burning Behavior of Flexible Vertical Specimens in Contact with a Small Flame Ignition Source."

These materials have been tested in accordance with standard small-scale test methods to define their burning characteristics in order to facilitate evaluation of their use in end-product applications. As such, the small-scale test data does not pertain to building materials, furnishings and related contents. The small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by the appropriate certification agency.

The relationship between the flammability classification of the materials covered under this category (IEC and ISO Publications) and the materials under category QMFZ2 (ANSI/UL 94, "Tests for Flammability of Plastic Materials for Parts in Devices and Appliances") are as follows:

ANSI/UL 94	IEC 60707	ISO 61210	ISO 69773	ISO 69772
94HB	FH 1, 2, 3	FH-1, -2, -3	—	—
94V-0, -1, -2	FV 0, 1, 2	FV-0, 1, 2	—	—
94VTM-0, -1, -2	—	—	VF-0, -1, -2	—
94HF-1, -2, HBF	—	—	—	HC1, 2, 3

Unless otherwise indicated in the individual Recognitions, the values shown apply to the unfoamed or solid material form. Materials which have been foamed with the introduction of a chemical blowing agent or inert gas may have significantly different properties than the unfoamed or solid material form.

UL MARKING

Materials Recognized under UL's Component Recognition Program are identified by markings consisting of the Recognized company's identification and material designation. In addition, materials produced under the UL Component Recognition Program will also bear the

Recognized Component Mark . The statement "Also Evaluated by Underwriters Laboratories Inc. in accordance with IEC/ISO _____" or, as an alternate, "Component IEC/ISO _____," appears adjacent to the marking.

The Listing or Classification Mark of UL is not authorized for use on, or in connection with, Recognized Components. Only those components that actually bear the "Marking" should be considered as being covered under the Component Recognition Program.

UL, in performing its functions in accordance with its objectives, does not assume or undertake to discharge any responsibility of the manufacturer or any other party. UL shall not incur any obligation or liability for any loss, expense or damages, including incidental or consequential damages, arising out of or in connection with the use, interpretation of, or reliance upon this Guide Information.

PANASONIC CORPORATION

KORIYAMA FACTORY 111 AZA-ISHIZUKA, KORIYAMA-SHI,
FUKUSHIMA-KEN 963-8556 JAPAN

E81336

Unclad	Mtl Dsg		Col	Thk (mm)	UL94	Flammability Class	
	Single Side Copper Clad	Double Side Copper Clad				IEC 707	ISO 1210
R-4605 prepreg	R-4700	R-4705	BN	0.38	V-0	FV0	FV-0
R-4600	R-4702	R-4707	BN	0.63	V-0	FV0	FV-0
—	—	R-4708	BN	1.40	V-0	FV0	FV-0
R-4685	R-4780	R-4785	BN	0.05	V-0	FV0	FV-0
R-4680	R-4782	R-4787	BN	0.38	V-0	FV0	FV-0
—	—	R-4788	BN	0.64	V-0	FV0	FV-0
			BN	1.40	V-0	FV0	FV-0
R-1621	R-1761	R-1766	NC	0.010	V-0	FV0	FV-0
			or GN				
R-1661	R-1762	R-1767	NC	0.38	V-0	FV0	FV-0
—	—	R-1768	or GN				
			NC	0.64	V-0	FV0	FV-0
			or GN				
			NC	1.40	V-0	FV0	FV-0
			or GN				
R-1600	R-1700	R-1705	NC,BK	0.10	V-0	FV0	FV-0



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2012 PLASTICS RECOGNIZED COMPONENT DIRECTORY

PLASTIC MATERIALS (PHAR2)

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Flammability Characteristics Certified in Accordance with IEC/ISO Publications (PHDL2)—Continued

Unclad	Mtl Dsg		Col	Thk (mm)	UL94	Flammability Class	
	Single Side Copper Clad	Double Side Copper Clad				IEC 707	ISO 1210
			or GN NC, BK or GN	0.38	V-0	FV0	FV-0
R1081	R-1781	R-1786	TN	0.64	V-0	FV0	FV-0
				1.40	V-0	FV0	FV-0
R1080Y	R-1780Y	R-1785Y	CR	0.38	V-0	FV0	FV-0
			CR	0.64	V-0	FV0	FV-0
			CR	1.40	V-0	FV0	FV-0
R-1110	R-1720	R-1725	CR	0.71	V-0	FV0	FV-0
			CR	1.45	V-0	FV0	FV-0
R-1123	R-1723	R-1728	BN	0.71	V-0	FV0	FV-0
			BN	1.45	V-0	FV0	FV-0
R-8102	R-8702	R-8707	BN	0.71	V-0	FV0	FV-0
			BN	1.45	V-0	FV0	FV-0
R-8100	R-8700	R-8705	BN	0.71	V-0	FV0	FV-0
R-4632	R-4732	R-4737	BN	0.38	V-0	FV0	FV-0
R-4637	R-4733	R-4738					
R-4633		R-4739					
R-4655	R-4750	R-4755	TN	0.17	V-0	FV0	FV-0
R-4650	R-4752	R-4757					
		R-4758	TN	0.38	V-0	FV0	FV-0
				0.64	V-0	FV0	FV-0
				1.40	V-0	FV0	FV-0
Metal-clad multilayer packages with internal circuitry and solid copper on outside surfaces.							
—	—	C-4880	BN	0.38	V-0	FV0	FV-0
			BN	0.64	V-0	FV0	FV-0
			BN	1.40	V-0	FV0	FV-0
—	—	C-1810	TN	0.20	V-0	FV0	FV-0
—	R-0710	—	GY	0.35	V-0	FV0	FV-0
	R-0712						
	R-0730						
	R-0732						
—	R-0713	—	GY	0.71	V-0	FV0	FV-0
	R-0733						
—	—	R-0715	GY	0.45	V-0	FV0	FV-0
		R-0717					
		R-0735					
		R-0737					
Metal base epoxy coated, copper clad industrial laminate furnished in sheet form.							
—	R-0711	R-0716	GY	0.43	V-0	FV0	FV-0
—	R-0731	R-0736					
Prepreg and glass epoxy powder for use in multilayer printed wiring boards.							
R-571	—	—	NC	0.38	V-0	FV0	FV-0
powder							
R-1571							
prepreg							

Marking: Company name and material designation.

POLYPLASTICS CO LTD VECTRA DIV 18-1 KONAN 2-CHOME MINATO-KU, TOKYO 108-8280 JAPAN

E106764

Mtl Dsg	Col	Min Thk (mm)	IEC 707 Flame Class	ISO 1210 Flame Class
Thermotropic liquid crystal polyester (TLCP), furnished in the form of pellets.				
A150	NC	0.45	FV 0	FV-0
	BK,NC	1.57	FV 0	FV-0
A410	BK,NC	0.45	FV 0	FV-0
A422	BK	0.45	FV 0	FV-0
A530	NC,BK	0.46	FV 0	FV-0
C150	NC	0.45	FV 0	FV-0
C950	NC	0.81	FV 0	FV-0

Marking: Company name and material designation on container, wrapper or molded on finished part.

PS JAPAN CORP 1-4-1 KOISHIKAWA BUNKYO-KU, TOKYO 112-0002 JAPAN

E193707

Mtl Dsg	Col	Min Thk (mm)	IEC 707 Flame Class	ISO 1210 Flame Class
Polystyrene, furnished in the form of pellets.				
VS712	All	2.1	FV0	FV-0
or VS714	All	2.5	FV0, LF0	FV-0, LF-0
	All	3.0	FV0, LF0	FV-0, LF-0
VS55	All	2.50	FV0	FV-0
	All	3.2	FV0	FV-0

Marking: Company name and material designation on container, wrapper or molded on finished part.

STYROLUTION AMERICA L L C 25846 SW FRONTAGE RD, CHANNAHON IL 60410

2012 PLASTICS RECOGNIZED COMPONENT DIRECTORY

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PLASTIC MATERIALS (PHAR2)

Flammability Characteristics Certified in Accordance with IEC/ISO Publications (PHDL2)–Continued

Mtl Dsg	Col	Min Thk (mm)	IEC 707 Flame Class	ISO 1210 Flame Class
Polystyrene (PS), designated "Nova", furnished in the form of pellets.				
HF-555	CL	1.5	FH3 44mm / min	FH-3
		2.5	FH3 32mm / min	FH-3
HF777	CL	1.5	FH3 142mm / min	FH-3
		3.0	FH3 94mm / min	FH-3
HH-101	NC,WT,BK	1.5	FH3 42mm / min	FH-3
Styrene-butadiene (SB), designated "Nova", furnished in the form of pellets.				
520	NC,BK	3.0	FH3 27mm / min	FH-3
410	NC	3.0	FH3 26mm / min	FH-3
Butadiene-styrene (BS), designated "Nova", furnished in the form of pellets.				
2400	NC,WT,BK	1.5	FH3 47mm / min	FH-3
		3.0	FH3 33mm / min	FH-3
4300	NC	1.02	FH3 53mm / min	FH-3
	All	1.5		
		3.0		
High impact polystyrene (PS), designated "Nova", furnished in the form of pellets.				
3350	All	0.97	FH3 2mm / min	FH-3
2122	NC,BK	1.5	FH3 27mm / min	FH-3

Marking: Company name and material designation on container, wrapper or molded on finished part.

SUMITOMO BAKELITE CO LTD5-8 HIGASHI-SHINAGAWA 2-CHOME SHINAGAWA-KU, TOKYO
140-0002 JAPAN**E41429**

Mtl Dsg	Col	Min Thk (mm)	IEC 707 Flame Class	ISO 1210 Flame Class
Epoxy (EP), designated "Sumikon" , furnished in the form of pellets.				
EME-1100	BK, GN	0.86	FV0	FV-0
EME-6300	BK	3.20	FV0	FV-0
EME-6300H	BK	3.18-3.34	FV0	FV-0
EME-6700	BK	1.60	FV0	FV-0
EME-9300	BK	3.20	FV0	FV-0

Marking: Company name or tradename "Sumikon" and/or trademark  and material designation on container, wrapper or molded on finished part.**TEKNOR APEX CO**

505 CENTRAL AVE PO BOX 2290, PAWTUCKET RI 02861

E148899

Mtl Dsg	Col	Min Thk (mm)	IEC 707 Flame Class	ISO 1210 Flame Class
Ethylene propylene thermoplastic rubber (EPTR), designated "SARLINK", furnished in the form of pellets.				
4370D	All	1.1	FV-0	FV-0
		3.0	FV-0	FV-0
4380	All	1.1	FV-0	FV-0
		3.0	FV-0	FV-0
4390	All	1.2	FV-0	FV-0
		3.0	FV-0	FV-0
4339D	All	1.2	FV-0	FV-0
		3.0	FV-0	FV-0

Marking: Company name and material designation on container, wrapper or molded on finished part.

TICONA CELSTRAN INC

4610 THEURER BLVD PO BOX 30010, WINONA MN 55987

E113269

Mtl Dsg	Col	Min Thk (mm)	IEC 707 Flame Class	ISO 1210 Flame Class
Polybutylene terephthalate (PBT), furnished in the form of pellets.				
Celstran PBT-G60	NC	3.0	FH 3-15 mm / min	FH-3
Celstran PP-GF30-02 NAT GL0018	NC	3.0	FH 3-16 mm / min	FH-3
Celstran PP-GF40-02 NAT GL0017	NC	3.0	FH 3-19 mm / min	FH-3
Celstran PP-GF50-02 NAT GL0019	NC	3.0	FH 3-19 mm / min	FH-3
Polypropylene (PP), furnished in the form of pellets.				
Celstran PP-G60	NC	3.0	FH 3-19 mm / min	FH-3
Polyurethane (PUR), furnished in the form of pellets.				
Celstran PU-G60	NC	3.18	FH 2	FH-2
Polyethylene terephthalate (PETP), furnished in the form of pellets.				
Celstran PET-G60	NC	3.18	FH 2	FH-2
Polyphenylene sulfide (PPHS), furnished in the form of pellets.				
Celstran PPS-G60FR	NC	3.18	FV 0	FV-0
Acetal (POM), furnished in the form of pellets.				
Celstran POM-G40	NC	3.18	FH 3-19mm / min	FH-3
Polyamide, Type 66 nylon (PA66), furnished in the form of pellets.				
Celstran PA66-G40HSL	NC	3.18	FH 2	FH-2
Celstran PA66-G60HSL	NC, BK	3.18	FH 2	FH-2

Marking: Company name and material designation on container, wrapper or molded on finished part.

TICONA

CELCON BUSINESS LINE 8040 DIXIE HWY, FLORENCE KY 41042

**Documents**
E38860
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Flammability Characteristics Certified in Accordance with IEC/ISO Publications (PHDL2)-Continued

Mtl Dsg	Col	Min Thk (mm)	IEC 707 Flame Class	ISO 1210 Flame Class
Acetal copolymer (POM), designated "Celcon", furnished in the form of pellets.				
M25#, M50#	All	0.71	FH3-63 mm/min	FH-3
M90#(f2), M140#		1.5	FH3-33 mm/min	FH-3
M270#, M450#		3.0	FH3-26 mm/min	FH-3
		6.0	FH3-14 mm/min	FH-3
WR-90	BK	0.71	FH3-64 mm/min	FH-3
WR-25		1.5	FH3-26 mm/min	FH-3
		3.0	FH3-27 mm/min	FH-3
		6.0	FH3-14 mm/min	FH-3
M90-34	All	1.5	FH3-33 mm/min	FH-3
		3.0	FH3-21 mm/min	FH-3
MC-270	All	0.71	FH3-63 mm/min	FH-3
MC-90		1.5	FH3-34 mm/min	FH-3
		3.0	FH3-26 mm/min	FH-3
MC-270-HM	All	0.71	FH3-63 mm/min	FH-3
MC-90-HM		1.5	FH3-37 mm/min	FH-3
		3.0	FH3-22 mm/min	FH-3
LW-90	All	0.71	FH3-63 mm/min	FH-3
		1.47	FH3-33 mm/min	FH-3
		3.05	FH3-22 mm/min	FH-3
LW90-F2	All	0.78	FH3-63 mm/min	FH-3
		1.57	FH3-33 mm/min	FH-3
		3.18	FH3-23 mm/min	FH-3
LW90-S1	NC	0.78	FH3-27 mm/min	FH-3
		1.57	FH3-61 mm/min	FH-3
LW90-S2	NC	0.78	FH3-27 mm/min	FH-3
		1.57	FH3-61 mm/min	FH-3
LW270-S1	NC	0.78	FH3-27 mm/min	FH-3
		1.57	FH3-61 mm/min	FH-3
LW270-S2	NC	0.78	FH3-27 mm/min	FH-3
		1.57	FH3-61 mm/min	FH-3
C251A	All	0.83	FH3-63 mm/min	FH-3
		1.5	FH3-26 mm/min	FH-3
		3.0	FH3-26 mm/min	FH-3
C251B	NC	0.93	FH3-51 mm/min	FH-3
		1.5	FH3-27 mm/min	FH-3
		3.0	FH3-27 mm/min	FH-3
C252A	All	0.83	FH3-63 mm/min	FH-3
		1.47	FH3-26 mm/min	FH-3
		3.05	FH3-26 mm/min	FH-3
		6.10	FH3-14 mm/min	FH-3
Acetal copolymer, fiber filled, designated "Celcon", furnished in the form of pellets.				
EF-25	BK	0.75	FH3-63 mm/min	FH-3
		1.5	FH3-33 mm/min	FH-3
		3.0	FH3-26 mm/min	FH-3
Acetal copolymer, glass reinforced, designated "Celcon or Kematell", furnished in the form of pellets.				
GC-25A	All	1.5	FH3-46 mm/min	FH-3
		3.0	FH3-22 mm/min	FH-3
		6.0	FH3-15 mm/min	FH-3
LWGC-S2	NC	0.75	FH3-61 mm/min	FH-3
		3.0	FH3-19 mm/min	FH-3
GB-25	NC	0.81	FH3-63 mm/min	FH-3
	All	1.47	FH3-46 mm/min	FH-3
		3.05	FH3-21 mm/min	FH-3
		6.10	FH3-15 mm/min	FH-3
C-265	All	1.47	FH3-46 mm/min	FH-3
		3.05	FH3-23 mm/min	FH-3
		6.10	FH3-15 mm/min	FH-3

#Celcon grades followed by no numerical suffix, or suffixes -01, -04, -07, -08 or -14 to indicate stabilizer packages, (A) suffix letters CA, CB, CC, CD, CE, CF, CG, CK, CL, CR, CS, CU, CY; (B) letters optional; (C) may also be followed by suffix -07, followed by word concentrate, the description of color and individual color number.

f2-Subjected to one or more of the following tests, Ultraviolet Light, Water Exposure or Immersion in accordance with UL 746C where the acceptability for outdoor use is to be determined by UL.

Marking: Company name or trade name "CELCON" or "KEMATAL" and material designation on container, wrapper or molded on finished part.

TICONA**E107854**

**FORTRON BUSINESS LINE 8040 DIXIE HWY, FLORENCE KY
41042**

Mtl Dsg	Col	Min Thk (mm)	IEC 707 Flame Class	ISO 1210 Flame Class
Polyphenylene sulfide (PPS), designated "Fortron", furnished in the form of pellets.				
1110(a)#	NC	0.38	FV 0	FV-0
	All	0.80	FV 0	FV-0
1120(a)#	NC	0.38	FV 0	FV-0
	All	0.80	FV 0	FV-0
1130(a)#	NC	0.38	FV 0	FV-0
	All	0.80	FV 0	FV-0
1131L4	BK	0.80	FV 0	FV-0
1140(a)#	All	0.38	FV 0	FV-0
1140E##+	All	0.85	FV 0	FV-0



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2012 PLASTICS RECOGNIZED COMPONENT DIRECTORY

12

PLASTIC MATERIALS (PHAR2)

Flammability Characteristics Certified in Accordance with IEC /ISO Publications (PHDL2)–Continued

Mtl Dsg	Col	Min Thk (mm)	IEC 707 Flame Class	ISO 1210 Flame Class
1140L#+	All	0.38	FV 0	FV-0
1140L#(f1)	BN,	1.5	FV 0	FV-0
	BK			
1140L4	All	1.5	FV 0	FV-0
1160(a)#	NC	0.38	FV 0	FV-0
	All	0.80	FV 0	FV-0
1342L4	NC	0.84	FV 0	FV-0
4184(a)#+	All	0.75	FV 0	FV-0
4184L4	BK	1.5	FV 0	FV-0
4332L6	NC	0.38	FV 0	FV-0
	BK	0.75	FV 0	FV-0
4665B6	BK	0.45	FV 0	FV-0
	NC,BK	0.82	FV 0	FV-0
6160(a)#	All	0.81	FV 0	FV-0
6165(a)#	All	0.75	FV 0	FV-0
6165(a)4	All	0.75	FV 0	FV-0
	NC,BK,BN	1.5	FV 0	FV-0
6165 D8	NC	0.81	FV 0	FV-0
6850L6	BK	0.38	FV 0	FV-0
8580A#	NC(BK)	0.35	FV 0	FV-0
8885A#	BK	0.35	FV 0	FV-0
8861A#	BK	0.81	FV 0	FV-0
IGM	NC,BK	0.87	FV 0	FV-0

(a)May be followed by an A, B or L to indicate lubricity.

(f1) Suitable for outdoor use with respect to exposure to ultraviolet light, water exposure and immersion in accordance with UL 746C.

(+) Virgin and regrind from 1 to 50% by weight incl., have the same basic material characteristics except the RTIs are 160 degrees C at a minimum thickness of 1.5mm for the mechanical with impact property for regrind 26 to 50% by weight incl.

(++) Virgin and regrind from 1 to 50% by weight incl., have the same basic material characteristics except RTIs are generic 105 C at a minimum thickness of 0.85mm, and RTIs are 180 C at a minimum thickness of 1.5mm for the mechanical with impact property for regrind 26 to 50% by weight incl.

(+++) Virgin and regrind from 1 to 50% by weight incl., have the same basic material characteristics except for the unaged tensile impact property.

#May be followed by a one digit number 0-9 incl. to indicate molecular weight.

Marking: Company name or trademark "FORTRON" and material designation on part, container or wrapper.

TICONA

E45575

POLYESTER BUSINESS LINE 8040 DIXIE HWY, FLORENCE KY
41042

Mtl Dsg	Col	Min Thk (mm)	IEC 707 Flame Class	ISO 1210 Flame Class
Polybutylene terephthalate (PBT), designated "Celanex", furnished in the form of pellets.				
3314	All	0.38	FV 0	FV-0
2012-2	All	0.71	FV 0	FV-0
3112-2	All	0.71	FV 0	FV-0
3310-2(f2)	All	0.71	FV 0	FV-0
3210-2,3213	All	0.71	FV 0	FV-0
3117-2	NC	0.30	FV 0	FV-0
	All	0.75	FV 0	FV-0
3217	NC	0.30	FV 2	FV-2
	All	0.75	FV 0	FV-0
3317	NC	0.30	FV 2	FV-2
	All	0.71	FV 0	FV-0
3212	All	0.71	FV 0	FV-0
3311-2,3311-3(f2)	All	0.71	FV 0	FV-0
3211-2,3211-3	All	0.71	FV 0	FV-0
2016+	All	0.75	FV 0	FV-0
2017	All	0.75	FV 0	FV-0
3116+	All	0.75	FV 0	FV-0
3216+	All	0.75	FV 0	FV-0
	NC,BK	0.41	FV 0	FV-0
3316+	NC	0.38	FV 0	FV-0
3316HF	All	0.75	FV 0	FV-0
2016CT	NC	0.83	FV 0	FV-0
3216CT	NC	0.83	FV 0	FV-0
3316CT	NC	0.83	FV 0	FV-0
3126+	All	0.75	FV 0	FV-0
3226+	All	0.75	FV 0	FV-0
3286	BK	0.80	FV 2	FV-2
4016++	All	0.85	FV 0	FV-0
7700-2	All	0.74	FV 0	FV-0
7716	NC	0.90	FV 0	FV-0
7316	NC,BK	0.85	FV 0	FV-0
3215	All	0.75	FV 0	FV-0
JKX-806	All	0.75	FV 0	FV-0
7304	All	0.81	FV 0	FV-0
3113-2	All	0.71	FV 0	FV-0
1452F	NC	6.0	FV 0	FV-0
145#Q	All	0.75	FV 0	FV-0
6443F**	All	0.84	FV 0	FV-0
7305	All	0.84	FV 0	FV-0
3315	All	0.39	FV 0	FV-0



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Flammability Characteristics Certified in Accordance with IEC/ISO Publications (PHDL2)–Continued

Mtl Dsg	Col	Min Thk (mm)	IEC 707 Flame Class	Class	ISO 1210 Flame
1630D	BK	1.5	FV 2		FV-2
3300-2,4300-2	All	0.71	FH 3-64mm / min		FH-3
		1.5	FH 3-64mm / min		FH-3
		3.0	FH 3-39mm / min		FH-3
3202-2	All	0.71	FH 3-64mm / min		FH-3
		1.5	FH 3-64mm / min		FH-3
		3.0	FH 3-39mm / min		FH-3
6443R	BK	0.89	FH 3-58mm / min		FH-3
3400-2	All	0.71	FH 3-64mm / min		FH-3
		1.5	FH 3-64mm / min		FH-3
		3.0	FH 3-39mm / min		FH-3
3200-2	All	0.71	FH 3-64mm / min		FH-3
		1.5	FH 3-64mm / min		FH-3
		3.0	FH 3-39mm / min		FH-3
3100-2	All	0.71	FH 3-64mm / min		FH-3
		1.5	FH 3-64mm / min		FH-3
		3.0	FH 3-39mm / min		FH-3
2005	All	0.71	FH 3-44mm / min		FH-3
		1.5	FH 3-44mm / min		FH-3
		3.0	FH 3-39mm / min		FH-3
2000-2	All	0.71	FH 3-44mm / min		FH-3
		1.5	FH 3-44mm / min		FH-3
		3.0	FH 3-39mm / min		FH-3
2003-2	All	0.71	FH 3-44mm / min		FH-3
		1.5	FH 3-44mm / min		FH-3
		3.0	FH 3-39mm / min		FH-3
2004-2	NC	1.0	FH 3-54mm / min		FH-3
		1.5	FH 3-54mm / min		FH-3
		3.0	FH 3-18mm / min		FH-3
5200-2	All	0.75	FH 3-50mm / min		FH-3
		1.5	FH 3-50mm / min		FH-3
		3.0	FH 3-22mm / min		FH-3
5202-2	All	6.0	FH 3-22mm / min		FH-3
		0.75	FH 3-63mm / min		FH-3
		1.5	FH 3-37mm / min		FH-3
		3.0	FH 3-24mm / min		FH-3
5300-2	All	6.0	FH 3-24mm / min		FH-3
		0.71	FH 3-63mm / min		FH-3
		1.5	FH 3-37mm / min		FH-3
		3.0	FH 3-24mm / min		FH-3
		6.0	FH 3-24mm / min		FH-3
Polybutylene terephthalate (PBT), glass reinforced, designated "Celanex", furnished in the form of pellets.					
7342R,BK-225	BK	1.5	FH 3-39mm / min		FH-3
Polybutylene terephthalate/polyethylene terephthalate (PBT/PET), designated "Celanex", furnished in the form of pellets.					
7862F	All	0.75	FV 0		FV-0
6404	All	0.75	FV 0		FV-0
6400-2	All	0.75	FH 3-60mm / min		FH-3
		1.5	FH 3-60mm / min		FH-3
		3.0	FH 3-25mm / min		FH-3
J600	NC,BK	0.82	FH 3-63mm / min		FH-3
			FH 3-39mm / min		FH-3
7862Z	All	0.75	FH 3-56mm / min		FH-3
		1.5	FH 3-56mm / min		FH-3
		3.0	FH 3-22mm / min		FH-3
Polybutylene terephthalate (PBT), alloys, designated "Vandar", furnished in the form of pellets.					
8000(f2)+++	All	0.85	FV 0		FV-0
	YL	1.7	FV 0		FV-0
VKX-107(f2)	YL	0.75	FV 0		FV-0
4602F	GY	1.5	FV 2		FV-2
	NC	6.0	FV 0		FV-0
Polyethylene terephthalate (PET), designated "Impet, furnished in the form of pellets.					
740	BK	0.70	FH 3-52mm / min		FH-3
		1.5	FH 3-52mm / min		FH-3
		3.0	FH 3-15mm / min		FH-3
Polyester elastomer, designated "Rite flex", furnished in the form of pellets.					
635	NC,BK	1.5	FH3-39mm / min		FH-3
		3.0	FH3-29mm / min		FH-3
640	NC	0.87	FH 3-67mm / min		FH-3
	GY,YL, BK	1.5	FH 3-22mm / min		FH-3
		3.0	FH3-29mm / min		FH-3
647, 655,	NC,BK	1.5	FH3-39mm / min		FH-3
663, 672		3.0	FH3-29mm / min		FH-3
677	NC,BK	1.5	FH3-34mm / min		FH-3
		3.0	FH3-18mm / min		FH-3

(f2) Subjected to one or more of the following tests: Ultraviolet Light, Water Exposure or Immersion in accordance with the UL 746C, where the acceptability for outdoor use is to be determined by UL.

A single digit 0, 2, 3 or 4.

+ Virgin and regrind from 1 to 50% by weight incl., have the same basic material characteristics.

++ Virgin and regrind from 1 to 25% by weight incl., have the same basic material characteristics. In addition, 26 to 50% by weight incl., have the same flammability characteristics in the natural color.

+++ Virgin and regrind from 1 to 25% by weight incl., have the same basic material characteristics. In addition, 26 to 50% regrind by weight incl., have the same flammability characteristics in the natural color.

** May or may not be prefixed by letters "LW".

Marking: Company name and material designation.



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Flammability Characteristics Certified in Accordance with IEC/ISO Publications (PHDL2)–Continued

TICONA

VECTRA BUSINESS LINE 8040 DIXIE HWY, FLORENCE KY 41042

E83005

Mtl Dsg	Col	Min Thk (mm)	IEC 707 Flame Class	ISO 1210 Flame Class
Liquid crystalline thermotropic aromatic polyester (LCP), designated "Vectra", furnished in the form of pellets.				
A515	NC	1.5	FV 1	FV-1
		3.0	FV 0	FV-0
C950	NC	0.81	FV 0	FV-0
C115	NC	0.81	FV 0	FV-0
A130(+)	BK, NC	0.45	FV0	FV-0
	All	0.85	FV0	FV-0
A115	NC	0.85	FV0	FV-0
A430	NC	0.43	FV0	FV-0
A422	BK	0.45	FV0	FV-0
A900, A950	BK, NC	0.81	FV 0	FV-0
C130(+)	All	0.4	FV 0	FV-0
A150	NC	0.45	FV 0	FV-0
	BK, NC	1.57	FV 0	FV-0
A410	BK, NC	0.45	FV 0	FV-0
C150	NC	0.45	FV 0	FV-0
A230	NC	0.43	FV 0	FV-0
A420	NC	0.91	FV 0	FV-0
A530	NC, BK	0.46	FV 0	FV-0
A540	NC	1.68	FV 0	FV-0
B130	NC	0.43	FV 0	FV-0
B950	NC	0.43	FV 0	FV-0
C550	NC	0.84	FV 1	FV-1
C810	NC	0.33	FV 0	FV-0
A130E	NC	0.43	FV 0	FV-0
V140	NC, BK	0.38	FV 0	FV-0
A435	NC	0.44	FV 0	FV-0
A440	BK, BL	0.4	FV 0	FV-0
	NC	0.9	FV 0	FV-0
RD1040	NC	1.5	FV 0	FV-0
A700	NC	0.42	FV 0	FV-0
B420	NC	0.38	FV 0	FV-0
B230	NC(BK)	0.46	FV 0	FV-0
A625(+2)	NC(BK)	0.45	FV 0	FV-0
K130(2),	NC, BK	0.87	FV 0	FV-0
K130XL(2)				
K140(3),	NC, BK	0.87	FV 0	FV-0
K140XL(3)				
E820i	NC	1.5	FV 0	FV-0
E130i(+1)	BK	0.43	FV 0	FV-0
	All	0.75	FV 0	FV-0
	All	0.84	FV 0	FV-0
L130(+),				
L130XL(+)				
L140	NC, BK	0.84	FV 0	FV-0
E130	NC, BK	0.38	FV 0	FV-0
	BL	0.75	FV 0	FV-0
E415i	NC, BK	0.75	FV 0	FV-0
L115	BK	0.86	FV 0	FV-0
	NC	1.5	FV 0	FV-0
LKX 1091	NC, BK	0.38	FV 0	FV-0
H130	NC, BK	1.5	FV 0	FV-0
H140(+4)	NC, BK	1.5	FV 0	FV-0
Conductive liquid crystalline thermotropic aromatic polyester (LCP), designated "Vectra", furnished in the form of pellets.				
A725	BK	0.83	FV 0	FV-0

(+) Virgin regrind from 1 to 50% by weight incl., have the same basic material characteristics.

(+1) Virgin and regrind from 1 to 25% by weight incl., have the same basic material characteristics. In addition 26 to 50% regrind by weight incl., have the same characteristics at a minimum thickness of 1.5mm except the RTI for the mechanical with impact property is 180 C.

(+2) Virgin and regrind from 1 to 25% by weight incl., have the same basic material characteristics. In addition 26 to 50% regrind by weight incl., have the same characteristics except for the impact property.

(+3) Virgin and regrind from 1 to 25% by weight incl., have the same basic material characteristics. In addition 26 to 50% regrind by weight incl., have the same characteristics in the minimum thickness of 1.5mm except for the impact property.

(+4) Virgin and regrind from 1 to 25% by weight incl., have the same basic material characteristics. In addition 26 to 50% regrind by weight incl., have the same flammability and electrical properties.

Marking: Company name or tradename "VECTRA" and material designation on part, container or wrapper.

PLASTICS (QMFZ2)

The materials covered under this category are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate use in the field. THE FINAL ACCEPTANCE OF THE COMPONENT IS DEPENDENT UPON ITS USE IN EQUIPMENT SUBMITTED TO UL

GENERAL

This category covers materials that have been tested in accordance with established methods to define their properties in order to facilitate investigation of their use in end-use product applications. The tests may include the determination of material flammability (burning characteristics), ignition characteristics from various thermal and electrical sources, electrical tracking and other electrical characteristics, physical and mechanical characteristics, and analytical tests. In addition, the effect of long-term exposure to elevated temperature (air-oven aging), water, ultraviolet light, cold, etc., on property retention may be investigated. Levels of performance characteristics required for a particular end-use product application are intended to be in accordance with the requirements of the end-use product. Due to space limitations, only a limited number of property values may be presented in the individual Recognitions. Additional properties may be found in the UL iQ™ for Plastics database at www.ul.com, or in the individual Reports.

In those cases where the materials have the same performance characteristics, with the exception of weathering resistance, they are tabulated together as a group with each material designation separated by a comma. The individual Recognitions may include alternate designations as well as materials that are basically similar in composition but differ by some minor variation, such as molecular weight, lubricants, colorants, etc.

Colors

The colors noted below are as pigmented by the material manufacturer; unless otherwise indicated, the property values are for the unpigmented (Natural color) material. Refer to Color Concentrates (QMQS2) and ANSI/UL 746D, "Polymeric Materials – Fabricated Parts," for limitations on the use of concentrates by the part molder or processor. The following abbreviations may be used in the individual Recognitions to represent the material color:

Abbreviation	Color
AL	Aluminum
ALL	Any color
-AO	- Any color (opaque only)
-AT	- Any color (transparent only)
AM	Amber
BG	Beige
BK	Black
BL	Blue
BN	Brown
BZ	Bronze
CL	Clear
GD	Gold
GN	Green
GY	Gray
IV	Ivory
NC	Natural (No pigmentation)
OL	Olive
OR	Orange
PK	Pink
RD	Red
SM	Smoke
TN	Tan
VT	Violet
WT	White
YL	Yellow

Flammability

Materials may be classified based on burning tests conducted in accordance with ANSI/UL 94, "Test for Flammability of Plastic Materials for Parts in Devices and Appliances," ANSI/UL 1694, "Tests for Flammability of Small Polymeric Component Materials," and ANSI/UL 723, "Test for Surface Burning Characteristics of Building Materials."

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents, and is intended solely for determining the flammability of plastic materials used in the components and parts of end-use product devices and appliances, where the acceptability of the combination is determined by UL.

	Horizontal Burning Test	20 mm Vertical Burning Test	TEST NAME (per ANSI/UL 94)		500 Watt (125 mm) Vertical Test
			Thin Material Vertical Burning Test	Horizontal Burning Foamed Material Test	
Flame Rating Hierarchy	—	V-0	VTM-0	—	More Severe
	—	V-1	VTM-1	HF-1	↑
	—	V-2	VTM-2	HF-2	↑
	HB	—	—	HBF	↑ Less Severe

Thermal Endurance

The materials covered by this program have been investigated with respect to thermal endurance of certain critical properties. The investigation was performed as part of a long-term thermal-aging program or based on historical record in accordance with ANSI/UL 746B, "Polymeric Materials – Long Term Property Evaluations." The temperature below which a class of critical property will not be unacceptably compromised through chemical thermal degradation, over the reasonable life of an electrical product (relative to a reference material having a confirmed, acceptable corresponding performance) is defined as the Relative Thermal Index (RTI). More than one RTI may be appropriate for a given material depending on the property requirements for a given application. In certain cases, higher temperatures are permitted if so specified by the end-use product standard.

RTI Elec — Electrical RTI, associated with critical insulating properties.

RTI Mech Imp — Mechanical Impact RTI, associated with critical impact resistance, toughness, elongation and flexibility properties.

RTI Mech Str — Mechanical Strength (Mechanical without Impact) RTI, associated with critical mechanical strength and structural integrity where impact resistance, resilience and flexibility may not be essential.

Resistance to Ignition and Tracking Properties

Performance may be investigated with respect to electrical track resistance, ability to resist ignition from electrical sources, and other electrical properties. In order to avoid an excessive level of implied precision and bias, material performances for several tests are recorded as Performance Level Categories (PLC), based on the mean test results (rather than recording the exact numerical results), as indicated in the table following the test description.

Hot-wire Ignition (HWI; ASTM D3874, IEC 60695-2-20) — Performance is expressed as the mean number of seconds needed to either ignite standard specimens or to burn through the specimens without ignition.

HWI Range	Assigned PLC
Mean Ignition Time (in sec)	
120 and longer	0
60 through 119	1
30 through 59	2
15 through 29	3
7 through 14	4
Less than 7	5

High-current-arc Ignition (HAI; ANSI/UL 746A) — Performance is expressed as the number of arc-rupture exposures (standardized as to electrode type and shape and electric circuit) that are necessary to ignite a material when they are applied at a standard rate on the surface of the material.

HAI Range Mean Number of Arcs to Cause Ignition	Assigned PLC
120 and greater	0
60 through 119	1
30 through 59	2
15 through 29	3
Less than 15	4

High-voltage-arc Tracking Rate (HVTR; ANSI/UL 746A) — Denoted as the rate, in mm/min, that a tracking path can be produced on the surface of the material under standardized test conditions. A notation is made if ignition on the material takes place. The results of testing the nominal 3 mm thickness are considered representative of the material's performance in any thickness.

HVTR Range (in mm/min)	Assigned PLC
0 through 10	0
10.1 through 25.4	1
25.5 through 80	2
80.1 through 150	3
Greater than 150	4

High-voltage, Low-current-arc Resistance (D495; ASTM D495) — Expressed as the number of seconds that a material resists the formation of a surface-conducting path when subjected to an intermittently occurring arc of high-voltage, low-current characteristics. The results of testing the nominal 3 mm thickness are considered representative of the material's performance in any thickness.

D495 Range Mean Time of Arc Resistance (in sec)	Assigned PLC
420 and longer	0
360 through 419	1
300 through 359	2
240 through 299	3
180 through 239	4
120 through 179	5
60 through 119	6
Less than 60	7

Comparative Tracking Index (CTI; ASTM D3638) — Expressed as that voltage which causes tracking after 50 drops of 0.1% ammonium chloride solution have fallen on the material. The results of testing the nominal 3 mm thickness are considered representative of the material's performance in any thickness.

CTI Range Tracking Index (in volts)	Assigned PLC
600 and greater	0
400 through 599	1
250 through 399	2
175 through 249	3
100 through 174	4
Less than 100	5

The above characteristics and dielectric strength, volume resistivity and other electrical and mechanical properties may be determined by means of the applicable ASTM and/or UL specification in ANSI/UL 746A, "Polymeric Materials – Short Term Property Evaluations."

In addition to minimum electrical and ignition test levels, materials that are used in applications involving support or contact with current-carrying parts are also required to display a minimum stability (heat distortion, moisture resistance, dimensional stability and mold stress) performance level, as described in ANSI/UL 746C, "Polymeric Materials – Use in Electrical Equipment Evaluations."

CONDITIONS OF ACCEPTABILITY

Unless specified otherwise in the individual Recognitions, consideration is to be given to the following Conditions of Acceptability when these components are employed in the end-use equipment:

1. **Material traceability** for parts covered under Fabricated Parts (QMMY2).
2. **Material identification** for a device employing parts molded of these materials should specify the parts' wall thickness, color, material identification, and traceability.
3. Materials must meet applicable requirements concerning the **molding and fabricating** of finished parts as described in ANSI/UL 746D, "Polymeric Materials – Fabricated Parts." This includes, but is not limited to, the restricted use of regrind thermoplastic material to amounts less than 25% unless specified in the individual Recognitions.
4. Unless otherwise indicated, **suitability for use** when exposed to weathering, oils, soaps, chemicals, x-rays, and the like has not been determined.
5. **Investigation of parts for other properties** in accordance with the applicable UL end-use product standard and/or requirements outlined in ANSI/UL 746C.

Additional Conditions of Acceptability may be found in the individual Recognition Report available from the manufacturer.

GENERIC MATERIAL SYMBOLS

The generic material symbols are based upon the terminology developed in the International Organization for Standardization publications ISO 1043, "Plastics – Symbols and Abbreviated Terms," and ISO 1629, "Rubber and Latexes – Nomenclature."

FOAMED MATERIALS

Materials that have been foamed with the introduction of a chemical blowing agent or inert gas may have significantly different properties than the unfoamed or solid material form; therefore, ratings that are established for solid (unfoamed) material do not automatically apply to the foamed version of that same material.

MATERIALS FOR USE IN SPECIAL ENVIRONMENTS

Investigation of materials for specific end-use product applications where requirements exist for the retention of properties after exposure to certain critical operating and/or environmental conditions may be indicated in the individual Recognitions.

COLUMN HEADING ABBREVIATIONS

The following abbreviations may be used in the column headings in the individual Recognitions:

Abbreviation
Flame Class
Mtl Dsg

Term
ANSI/UL 94 Flammability Classification
Material Designation



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Abbreviation

Col
Min Thk
Thk Rg
Den Range g/cc
Elec
RP
RTI
HWI
HAI
HVTR
D495
CTI
Mech
Tnsl
Elong
Str
Imp

Term

Color
Minimum Thickness
Thickness Range
Density Range, g/cc
Electrical
Radiant Panel
Relative Temperature Index
Hot-wire Ignition
High-current-arc Ignition
High-voltage-arc Tracking Rate
Arc Resistance
Comparative Tracking Index
Mechanical
Tensile
Elongation
Strength
Impact

RELATED PRODUCTS

See the following:

Polymeric Materials – Filament-wound Tubing, Industrial Laminates, Vulcanized Fiber, and Materials for Use in Fabricating Recognized Printed Wiring Boards (QMTS2)
Coatings for Use on Recognized Printed Wiring Boards (QMJU2)
Metallized Parts (QMRX2)
Supplier Components for Use in the Fabrication of Metallized Parts (QMSS2)
Systems, Electrical Insulation (OBJY2)
Polymeric Adhesive Systems, Electrical Equipment (QOQW2)
Color Concentrates (QMQS2)
Mold-release Lubricants (QMSX2)

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3A COMPOSITES USA INC**E75708**

208 W 5TH ST PO BOX 507, BENTON KY 42025

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	RTI Imp	Mech Str	H V T R	D 4 9 5	C T I
Polyvinylchloride (PVC), furnished as sheets.											
SINTRA#	WT	1.0	V-0, 5VB	-	-	50	50	50			
	ALL	2.0	V-0, 5VB	-	-	50	50	50			
	WT, GY	2.0	V-0, 5VA	-	-	50	50	50			
	ALL	3.0	V-0, 5VA	-	-	50	50	50			
	WT	10.0	V-0, 5VA	-	-	50	50	50			

- Density range: 0.64-0.80 g/cc at 1.0mm and 0.40-0.65 g/cc at 10.0mm.

NOTE - Sintra Mateial is a trademark used by Alucobond Technologies Inc.

Marking: Company name and material designation on container, wrapper or finished part.

3FORM INC**E303146**

SUITE B 2300 S 2300 W, SALT LAKE CITY UT 84119

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	RTI Imp	Mech Str	H V T R	D 4 9 5	C T I
PETG, furnished as finished parts.											
EcoResin	CT	1.6	HB	-	-	75	75	75			

Marking: Company name and material designation on container, wrapper or finished part.

3M CHINA CO LTD**E315816**

222 TIAN LIN RD 200223, SHANGHAI CHINA

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	RTI Imp	Mech Str	H V T R	D 4 9 5	C T I
Epoxy Potting Compound (EP - Potting), furnished as two liquid components.											
291R	BK, GY	6.0-6.6	V-0	-	-	90	90	90	-	-	-
Silicone "Room Temperature Vulcanizing" (RTV), furnished as sheets.											
7900	GN	0.2-0.22	V-0	-	-	105	105	105	-	-	-

Marking: Company name and material designation on container, wrapper or finished part.

3M COMPANY 3M COMMERCIAL GRAPHICS DIV**E65133**

BLDG 207-BW-09 3M CENTER, ST PAUL MN 55144

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	RTI Imp	Mech Str	H V T R	D 4 9 5	C T I
Polyester (PER), film w/ adhesive, "3M", furnished as sheets.											



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PLASTICS (QMFZ2)

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Panaflex Paint-on-Paper Series 840-114 GPS	WT	-	-	-	-	50	50	50	-	-	-
Scotchcal Heat Activated Translucent Film Series 825-XX (b)	ALL	-	-	-	-	50	50	50	-	-	-
Scotchcal Translucent Film Series 3630-XX(b)	ALL	-	-	-	-	50	50	50	-	-	-
Scotchcal Translucent Film Series 3640-114 GPS(b)	ALL	-	-	-	-	50	50	50	-	-	-
Scotchcal Translucent Film Series 3642-114 GPS(b)	TL	-	-	-	-	50	50	50	-	-	-
Scotchprint 8626 Clear Marking Film	CL	-	-	-	-	50	50	50	-	-	-
Scotchprint 8628 Translucent Marking Film	TL	-	-	-	-	50	50	50	-	-	-
Scotchprint Protective Overlaminate 8910	CL	-	-	-	-	50	50	50	-	-	-
Polyester (PER), "3M", furnished as sheets.											
Scotchcal Light Control Film 3635-20	CL	ANY	HB	-	-	50	50	50	-	-	-
Scotchcal Light Control Film 3635-22	CL	ANY	HB	-	-	50	50	50	-	-	-
Scotchcal Translucent Film Series 3631 (b)	ALL	ANY	HB	-	-	50	50	50	-	-	-
Scotchcal Translucent Film Series 3632 (b)	ALL	ANY	HB	-	-	50	50	50	-	-	-
T1J 3637-20	WT	ANY	HB	-	-	50	50	50	-	-	-
T1J 8516	CL	ANY	HB	-	-	50	50	50	-	-	-
Polyvinylchloride (PVC), polyester scrim reinforced, "3M", furnished as sheets.											
Panaflex (a)	WT	0.48	HB	-	-	50	50	50	-	-	-
		0.48-0.58	VTM-0	-	-	50	50	50	-	-	-
Panaflex Paint-on-paper Series 830-GPS (a)	WT	0.50	HB	-	-	50	50	50	-	-	-
Panaflex Series 3000 (a)	WT	0.48	HB	-	-	50	50	50	-	-	-
Panaflex Series 4000 (a)	WT	0.48	HB	-	-	50	50	50	-	-	-
Panaflex Series 4050HG (a)	WT	0.5	HB	-	-	50	50	50	-	-	-
Panaflex Series 4500GPS (a)	WT	0.50	HB	-	-	50	50	50	-	-	-
Panaflex Substrate Series 600/645 GPS (a)	WT	0.41	HB	-	-	50	50	50	-	-	-
Panaflex Substrate Series 945/946 GPS (a)	WT	0.48	HB	-	-	50	50	50	-	-	-

(a) - The surface of the material may be printed in all colors.

(b) - Followed by a two or three digit suffix denoting color.

Marking: Company name and material designation on container, wrapper or finished part.

3M COMPANY 3M COMMERCIAL GRAPHICS DIV BLDG 207-BW-09 3M CENTER, ST PAUL MN 55144

E71569

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Cellulose Acetate Butyrate (CAB), with or without abrasion resistant coating, furnished as sheets.											
LCF-AG ABRO-GLS, LCF-AG ABR2-GLS, LCF-TB ABRO-GLS, LCF-TB ABR2-GLS	GY	0.77-3.0	HB	-	-	50	50	50	-	-	-
Cellulose Acetate Butyrate/Polycarbonate (CAB/PC), laminate with or without abrasion resistant coating, furnished as sheets.											
LCF-P AG ABR0-GLS, LCF-P AG ABR1-75%, LCF-P AG ABR2-75%	GY	0.77-3.0	HB	-	-	50	50	50	-	-	-
LCF-P TB ABR0-GLS, LCF-P TB ABR1-75%, LCF-P TB ABR2-75%	GY	0.77-3.0	HB	-	-	50	50	50	-	-	-
Polyester (PER), "Vikuiti", furnished as sheets.											
3M Vikuiti	BK	0.47-0.51	HB	-	-	50	50	50	-	-	-
Polymethyl Methacrylate (PMMA), composite sheet, "Vikuiti", furnished as sheets.											
XRVS120NG	GY	3.0	HB	-	-	50	50	50	-	-	-
		5.0	HB	-	-	50	50	50	-	-	-

Marking: Company name and material designation on container, wrapper or finished part.

3M COMPANY CORROSION PROTECTION PRODUCTS DEPT 3M AUSTIN CENTER 6801 RIVER PLACE BLVD, AUSTIN TX 78726

E35075

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Epoxy Powder Coating (EP - Powder), "Scotchcast", furnished as powder.											
No. 260, No. 260-CG, No. 5230N	ALL	0.13	-	-	-	130	130	130	-	-	-
No. 263	ALL	0.13	-	-	-	130	130	130	-	-	-
No. 266	GN	0.13	-	-	-	130	-	130	-	-	-
No. 5341, No. 5388	BL	-	-	-	-	105	105	105	-	-	-
No. 5555	BL, GN	-	-	-	-	105	105	105	-	-	-

Marking: Company name and material designation on container, wrapper or finished part.



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3M COMPANY ELECTRICAL MARKETS DIV (EMD) 3M AUSTIN CENTER 6801 RIVER PLACE BLVD, AUSTIN TX 78726

E53092

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Polyethylene Terephthalate (PET), film, furnished as sheets. 862, 860, 870, 602, 990	NC	0.01	-	-	-	105	-	105	-	-	-

Marking: Company name and material designation on container, wrapper or finished part.

3M COMPANY INDUSTRIAL ADHESIVES & TAPES DIV 3M CENTER BLDG 230-3G-07, ST PAUL MN 55144

E116693

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Polyurethane (PUR), flexible foam with adhesive on one side, "3M Bumpom Protective Products", furnished as rolls, sheets.											
SJ-59(a)	BK	3.0-6.9	HB	-	-	50	50	50	-	-	-
Polyurethane (PUR), flexible with adhesive on one side, "3M Bumpom Protective Products", furnished as finished parts.											
SJ-50(a)	ALL	0.74	HB	-	-	50	50	50	-	-	-
SJ-55(a)	ALL	0.74	HB	-	-	50	50	50	-	-	-
SJ-57(a)	ALL	0.74	HB	-	-	50	50	50	-	-	-
SJ-61(a)	BK	0.72	HB	-	-	50	50	50	-	-	-
Polyurethane (PUR), flexible with adhesive on one side, "3M Bumpom Protective Products", furnished as rolls, sheets.											
SJ-56(a)	NC	0.75	HB	-	-	50	50	50	-	-	-
SJ-58(a)	ALL	0.75	HB	-	-	50	50	50	-	-	-
SJ-60(a)	BK, BN	0.72-3.6	HB	-	-	50	50	50	-	-	-
SJ-62(a)	BK	0.72	HB	-	-	50	50	50	-	-	-
Polyurethane (PUR), flexible with adhesive on one side and copolyester sheet finish, "3M Bumpom Protective Products", furnished as finished parts.											
SJ-63(a)	BK	1.0	HB	-	-	50	50	50	-	-	-
Polyurethane (PUR), flexible with adhesive on one side and embossed leather grain finish, "3M Bumpom Protective Products", furnished as rolls, sheets.											
SJ-64(a)	BK	0.72	HB	-	-	50	50	50	-	-	-
Polyurethane (PUR), flexible without adhesive, "3M Bumpom Protective Products", furnished as finished parts.											
PUR #1	BK	1.2-1.4	VTM-2	-	-	50	50	50	-	-	-
		2.9-3.1	V-2	-	-	50	50	50	-	-	-
Polyurethane (PUR), flexible without adhesive, "3M Bumpom Protective Products", furnished as finished parts.											
SJ-67(a)	BK	1.5	HB	-	-	50	50	50	-	-	-
Aluminum foil with crosslinked acrylic polymer adhesive, "Scotchdamp", furnished as finished parts.											
SJ2052 Type 0510	NC	0.36	HB	-	-	-	-	-	-	-	-

(a) - Represents a two digit number for the thickness or shape of the part

Marking: Company name and material designation on container, wrapper or finished part.

3M COMPANY INDUSTRIAL ADHESIVES & TAPES DIV 3M CENTER BLDG 230-3G-07, ST PAUL MN 55144

E61941

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Adhesive/Sealant, "3M", furnished as cartridges or pails.											
PV 1000(g)	WT	-	-	-	-	-	-	-	-	-	-
	BK	-	-	-	-	-	-	-	-	-	-
Epoxy Casting Compound (EP - Casting), adhesive, "Scotch-Weld", furnished as liquid.											
1386	NC	1.5	HB	-	-	90	90	90	-	-	-
Epoxy Casting Compound (EP - Casting), adhesive, "Scotch-Weld", furnished as paste.											
2214 Hi-Density	GY	0.51	HB	-	-	90	90	90	-	-	-
2214 Hi-Flex	GY	0.51	HB	-	-	90	90	90	-	-	-
2214 Hi-Temp (Old Formula)	GY	0.51	HB	-	-	90	90	90	-	-	-
2214 Non-Metallic	NC	1.5	HB	-	-	90	90	90	-	-	-
2214 Regular	GY	1.5	HB	-	-	90	90	90	-	-	-
Epoxy Casting Compound (EP - Casting), adhesive, "Scotch-Weld", furnished as two liquid components.											
1838 B/A(b)	GN	0.51	HB	-	-	90	90	90	-	-	-
2158 B/A(b)	GY	0.51	HB	-	-	90	90	90	-	-	-
2216 B/A(b)	NC	1.5	HB	-	-	90	90	90	-	-	-
	GY	0.51	HB	-	-	90	90	90	-	-	-
3569 B/A High Performance (b)	GN	1.5	HB	-	-	90	90	90	-	-	-
DP-100 Plus (a), (b)	NC	1.5	HB	-	-	90	90	90	-	-	-
DP-100(a), 100 B/A(b)	NC	1.5	HB	-	-	90	90	90	-	-	-
DP-100FR(a)(f)	WT	3.1 - 3.4	V-0	-	-	90	90	90	-	-	-
DP-100FR(a), 100FR B/A(b)	NC, BG	1.9	V-0	-	-	90	90	90	-	-	-
DP-190(a)	GY	0.51	HB	-	0	90	90	90	-	-	0
DP-270(a), 270 B/A(b)	NC, BK	1.5	HB	-	-	90	90	90	-	-	-
DP-420(a), 420 B/A(b)	NC	1.5	HB	1	0	90	90	90	-	-	-
		3.0	HB	1	0	90	90	90	-	-	-
DP-460(a), DP-460EG(a), 460 B/A(b)	NC	1.5	HB	-	-	90	90	90	-	-	-
Epoxy Casting Compound (EP - Casting), "Scotch-Weld", furnished as two liquid components.											
DP-125	GY	1.5	HB	1	0	90	90	90	-	-	-
		3.0	HB	0	0	90	90	90	-	-	-
Ethylene Vinyl Acetate (E/VAC), hot melt adhesive, "3M", furnished as cylinders.											



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PLASTICS (QMFZ2)

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
3738, 3738-AE, 3738-B, 3738-PG, 3738-Q, 3738-TC	NC	12.7	V-2	-	-	50	50	50	-	-	-
3764, 3764-AE, 3764-B, 3764-PG, 3764-Q, 3764-TC	NC	3.0	V-2	4	1	50	50	50	-	-	0
Ethylene Vinyl Acetate (E/VAC), furnished as Cylinders.											
3792-LM, 3792-LM-B, 3792-LM-PG, 3792-LM-Q, 3792-LM-TC	NC	1.5-1.65	V-2	-	-	50	50	50	-	-	-
Ethylene Vinyl Acetate (E/VAC).											
3762, 3762-AE, 3762-PG, 3762-Q, 3762-TC	NC	12.7	V-2	-	-	50	50	50	-	-	-
3792, 3792-AE, 3792-PG, 3792-Q, 3792-TC	NC	12.7	V-2	-	-	50	50	50	-	-	-
Polyamide (PA), hot melt adhesive, "3M", furnished as cylinders.											
EC-3779, 3779-AE, 3779-B, 3779-PG, 3779-Q, 3779-TC	NC	3.0	V-0	-	-	65	65	65	-	-	-
EC-3789, 3789-B, 3789-PG, 3789-Q, 3789-TC	NC, TN	1.5	V-2	-	-	65	65	65	-	-	-
JA-7375, 7375-PG, 7375-TC, 7375-TC-L	NC	3.0	V-0	3	0	65	65	65	-	-	0
Polypropylene (PP), hot melt adhesive, "3M", furnished as cylinders.											
EC-3748, 3748-AE, 3748-B, 3748-PG, 3748-Q, 3748-TC	NC	1.5	V-2	3	0	65	65	65	-	-	0
EC-3768, 3748V-0 PG, 3748V-0 Q, 3748V-0 TC	NC	1.5	V-0	4	0	65	65	65	-	-	0
EC-3797, 3797-AE, 3797-PG, 3797-TC	NC	3.0	V-2	3	0	65	65	65	-	-	0
JA-7399, JA-7399-PG, JA-7399-TC, JA-7399-Q	NC	1.5	V-2	-	-	65	65	65	-	-	-
	NC	3.0	V-2	-	-	65	65	65	-	-	-

(a) - Liquid components are contained in two parallel tubes packaged together.

(b) - Liquid components are contained in two separate containers packaged together.

(f) - Marking label also includes one of the following stock numbers: 62-3531-1435-8, 62-3531-3830-8, 62-3531-3530-4, 62-3531-8530-9, 62-3631-8530-7.

(g) - Marking label also includes one of the following stock numbers: ID No. 60-5100-2940-2 or ID No. 60-5100-2941-0 or ID No. 98-0213-2346-8 or ID No. 70-0066-6204-6.

Marking: Company name or tradename "3M" and material designation on container, wrapper or finished part.

3M COMPANY INDUSTRIAL ADHESIVES & TAPES DIV

E76581

3M CENTER BLDG 230-3G-07, ST PAUL MN 55144

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Polyurethane (PUR), foam with single coat of acrylic adhesive tape, furnished as tape.											
4104	WT	6.0	HB	-	-	-	-	-	-	-	-
4317	GY	9.3	HB	-	-	-	-	-	-	-	-
Polyvinylchloride (PVC), foam with single coat of adhesive, furnished as rolls.											
4504	BK	6.0	HB	-	-	-	-	-	-	-	-
4508	BK	3.0	HB	-	-	-	-	-	-	-	-
4516	BK	1.5	HB	-	-	-	-	-	-	-	-
4714	BK	6.0	HB	-	-	-	-	-	-	-	-
4718	BK	3.0	HB	-	-	-	-	-	-	-	-
4726	BK	1.5	HB	-	-	-	-	-	-	-	-

Marking: Company name and material designation on container, wrapper or finished part.

3M DEUTSCHLAND GMBH

E253171

CARL-SCHURZ-STR 1 41453, NEUSS GERMANY

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Acrylic, Thermally conductive adhesive tape, "3M", furnished as sheets or rolls.											
8940(a)	BG	0.13-0.15	V-0	-	-	50	-	50	-	-	-
Polyurethane (PUR), casting system, furnished as two liquid components.											
Scotchcast 894 HF	BK	1.5	V-0	0	0	155	-	-	-	-	0
		3.0	V-0	0	0	155	-	-	-	-	-
	ALL	1.9-2.0	V-0	0	0	155	-	-	-	-	-

(a) - Flame rating applies to adhesive bonded to 3.0mm minimum thickness aluminum on one side and 0.86 minimum thickness Recognized Component (QMTS2) FR-4 laminate on other side.

Marking: Company name and material designation on container, wrapper or finished part.

3M INNOVATIVE PAPER TECHNOLOGIES

E65069

1 PAPER TRL, TILTON NH 03276-5250

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Hybrid Inorganic/Organic Paper, furnished as sheets or rolls.											
TufQUIN 110	NC	0.127	-	-	-	105	105	105	-	-	-
TufFR	NC	0.064	V-0	-	-	105	105	105	-	-	-
		0.114	V-0	-	-	105	105	105	-	-	-



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2012 PLASTICS RECOGNIZED COMPONENT DIRECTORY

PLASTICS (QMFZ2)

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Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
TuFR HF	WT	0.13 0.18	V-0 V-0	- -	- -	105 105	105 105	105 105	- -	- -	- -
TuFR VTM HF	NC	0.075-0.083	VTM-0	-	-	105	105	105	-	-	-
Hybrid Inorganic/Organic Paper Laminate, furnished as sheets or rolls.											
TufQUIN TFT	NC	0.127	-	-	-	-	-	-	-	-	0
Inorganic Cold-molded Compounds, Millboard and rubber composite, furnished as sheets.											
CeQuinbord 100, CeQuinbord HB	GY	0.50	V-0, 5VA	-	-	-	-	-	-	-	-
Inorganic Cold-molded Compounds, millboard composite, furnished as sheets.											
CeQuinbord CGA	WT	1.6 3.0	V-0, 5VA	- -	- -	- -	- -	- -	- -	4 -	- -
Inorganic Cold-molded Compounds, Unfired, ceramic like paper, furnished as sheets or rolls.											
CeQuin 100	GY	0.13	V-0, 5VA	-	-	-	-	-	-	-	-
CeQuin IFI 5-1-5	NC	0.27	HB	-	-	-	-	-	-	-	-
Inorganic Cold-molded Compounds, unfired, ceramic like paper, furnished as sheets, rolls.											
CeQuin V	BG	0.10	V-0	-	-	-	-	-	-	4	-
GardBORD	NC	0.25	V-0, 5VA	-	-	-	-	-	-	-	-
Inorganic Cold-molded Compounds, furnished as sheets or rolls.											
ThermaVolt LNC	NC	0.100-0.126 0.127-0.507 0.508-0.642	V-0, 5VA V-0, 5VA V-0, 5VA	- 4 4	- 3 2	- - -	- - -	- - -	0 - -	5 - -	0 - -
ThermaVolt*	NC	0.064-0.381	V-0, 5VA	4	2	-	-	-	0	4	0
Polyphenylene Sulfide (PPS), furnished as sheets or rolls.											
Thermal Shield	NC	0.127	-	-	-	105	105	105	-	-	-
Inorganic unfired, ceramic-like paper, furnished as sheets or rolls.											
GARBORD FW	NC	0.29-0.35	V-0, 5VA	-	-	-	-	-	-	-	-

Marking: Company name and material designation on container, wrapper or finished part.

3M KOREA LTD

E239181

NAJU FACTORY 91 OKDANG-RI MUNPYONG-MYON, NAJU-GUN, CHOLLANAMDO 520-940 REPUBLIC OF KOREA

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Acrylate, "Acrylic Thermal Pad", furnished as Roll or sheet.											
TM-501	NC	1.0-1.1	V-0	-	-	50	50	50	-	-	-
Acrylic, Thermally conductive, furnished as tape.											
9884FR-12	NC	1.0-1.2	V-2	-	-	50	50	50	-	-	-
Acrylic, furnished as finished parts.											
#5571	WT	0.25 0.5 3.0	V-0 V-0 V-0	- - -	- - -	50 50 50	50 50 50	50 50 50	- - -	- - -	- - -
Acrylic, furnished as pad.											
TM-830, TM-850, #5570, #5574	WT	0.5 1.0 3.0	V-0 V-0 V-0	- - -	- - -	50 50 50	50 50 50	50 50 50	- - -	- - -	- - -
Acrylic, furnished as tape.											
TM-670SA, TM-671SA, TM-672SA, TM-350SA, 9883SP	WT	0.25-1.7	V-2	-	-	50	50	50	-	-	-
TM-840, Acrylic Thermal Pad 1.5W/3.0W, TM-860											
	WT	1.0 3.0	V-0 V-0	- -	- -	50 50	50 50	50 50	- -	- -	- -
Acrylic adhesive, furnished as finished parts.											
#9884FR-LP, #9884FR-PG07, #9884FR-PG09, #9884FR-PG12, 9884SD	WT	0.38-5.0	V-2	-	-	50	50	50	-	-	-
TM-350, TM-670, TM-671, #9884FR-PG											
	WT	0.25-0.27	V-2	-	-	50	50	50	-	-	-
Acrylic adhesive.											
#9884FR-12	NC	1.1-1.2	V-2	-	-	50	50	50	-	-	-
#9884FR-9G	GY	0.8-0.9	V-2	-	-	50	50	50	-	-	-
Acrylic/PET film with both side Adhesive layer, furnished as tape.											
8904	NC	0.2 0.5 2.0-2.2	V-0 V-0 V-0	- - -	- - -	50 50 50	50 50 50	50 50 50	- - -	- - -	- - -
Chlorinated Polyethylene Rubber (CPE), furnished as sheets.											
AB5000	NC	0.09-1.1	V-0	-	-	50	50	50	-	-	-
AB7(a)	GY	0.12-0.66	V-1	-	-	50	50	50	-	-	-
Silicone, "Thermally Conductive Silicone Interface Pad", furnished as sheets or roll.											
#5515	GY	0.2 0.25 0.4-0.44	V-0 V-0 V-0	- - -	- - -	105 105 105	105 105 105	105 105 105	- - -	- - -	- - -
Silicone, furnished as pad.											
#5516	GY	0.5 1.0 5.0	V-0 V-0 V-0	- - -	- - -	105 105 105	105 105 105	105 105 105	- - -	- - -	- - -
#5519	GY	0.5 1.0 5.0	V-0 V-0 V-0	- - -	- - -	105 105 105	105 105 105	105 105 105	- - -	- - -	- - -
Silicone (HCR), furnished as sheets or Roll.											
#5592, #5592S	WT	0.5 1.0 3.0 5.0	V-1 V-1 V-0 V-0	- - - -	- - - -	105 105 105 105	105 105 105 105	105 105 105 105	- - - -	- - - -	- - - -
#5595S, #5595	GY	0.5 1.0 3.0	V-0 V-0 V-0	- - -	- - -	105 105 105	105 105 105	105 105 105	- - -	- - -	- - -



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2012 PLASTICS RECOGNIZED COMPONENT DIRECTORY

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PLASTICS (QMFZ2)

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Silicone (SD), "Thermally Conductive Silicone Interface Pad", furnished as sheets.											
#5514	GY	0.175-0.25	V-1	-	-	105	105	105	-	-	-
Silicone Rubber, Silicone with PTFE(Teflon) film and acrylic adhesive on each side, "Silicone Thermal Pad", furnished as sheets.											
#SS889	GY	1.2	V-0	-	-	105	105	105	-	-	-
		3.5	V-0	-	-	105	105	105			
Silicone with PET film.											
#5591S (c)	WT	0.5	V-1	-	-	105	105	105	-	-	-
		1.0	V-0	-	-	105	105	105			
		5.0	V-0	-	-	105	105	105			
Silicone with Polyester film, furnished as pad.											
#5516S	GY	0.5	V-1	-	-	105	105	105	-	-	-
		1.0	V-1	-	-	105	105	105			
		5.0	V-0	-	-	105	105	105			
#5519S	GY	0.5	V-0	-	-	105	105	105	-	-	-
		1.0	V-0	-	-	105	105	105			
		5.0	V-0	-	-	105	105	105			

(a) - May be replaced by three digits indicating thickness.

(c) - White color is for silicone (one side blue PET film attached)

Marking: Company name and material designation on container, wrapper or finished part.

A & C PLASTIC PRODUCTS INC

6135 NORTHDAL ST, HOUSTON TX 77087-5036

E333034

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Polymethyl Methacrylate (PMMA), furnished as sheets.											
Trucast	ALL	1.5	HB	-	-	50	50	50	-	-	-

Marking: Company name or tradename "TruCast" and material designation on container, wrapper or finished part.

A C R PELNOX (FOSHAN) ELEC-COMP CO LTD

7817 INDUSTRIAL PARK DAMEN MANAGEMENT DISTRICT
DALIENG, SHUNDE, GUANGDONG 528300 CHINA

E215465

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Epoxy Potting Compound (EP - Potting), furnished as two liquid components.											
8801AB	BK	3.0	V-0	-	-	90	90	90	-	-	-

Marking: Company name and material designation on container, wrapper or finished part.

A D COMPOUND SPA

VIA MEUCCI 2 28066, GALLIATE, NO ITALY

E342646

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Polypropylene (PP), mineral reinforced, furnished as pellets.											
ADENE O05MFBG-00 (a)	BK	1.5	HB	3	1	65	65	65	-	-	-
		3.0	HB	3	1	65	65	65			
Polypropylene (PP), furnished as pellets.											
PERLER Y02N0000B10	YL	1.5	HB	3	1	65	65	65	-	-	-
		2.0	HB	3	1	65	65	65			
		3.0	HB	2	1	65	65	65			

(a) - Virgin and regrind up to 40% by weight have the same flame, HWI, HWI and Glow Wire ratings.

Marking: Company name and material designation on container, wrapper or finished part.

A L M CORP

55 HAUL RD, WAYNE NJ 07470

E86498

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
PA6.											
Nylene 5235 SP NF XK BK, Nylene 5235 BK											
	BK	0.75	HB	-	-	65	65	65	-	-	-
Polyamide 12 (PA12), furnished as pellets.											
PA0440 FR	NC	3.00	V-2	-	-	65	65	65	-	-	-
PA0440 FR BL	BL	3.00	V-2	-	-	65	65	65	-	-	-
Polyamide 6 (PA6), Magnesium silicate filled, "NYLENE", furnished as pellets.											
6240 HS JW SP	NC	1.5	HB	-	-	65	65	65	-	-	-
		3.0	HB	-	-	65	65	65			
Polyamide 6 (PA6), furnished as pellets.											
200	NC	0.81	HB	4	0	130	100	105	2	6	1
		1.6	HB	4	0	130	100	105			
		3.0	HB	3	0	130	105	105			
204	BK	6.0	HB	-	-	65	65	65			



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Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
7115	NC	1.8	HB	-	-	65	65	65	1	-	1
		3.0	HB	0	0	65	65	65			
		6.0	HB	0	0	65	65	65			
Nylene 721	NC	0.75	HB	-	-	65	65	65	-	-	-
Nylene 721	NC	0.75	HB	-	-	65	65	65	-	-	-
Nylon 724	NC	0.75	HB	-	-	65	65	65	-	-	-
Nylon 724	BK	0.75	HB	-	-	65	65	65	-	-	-
Polyamide 6/6 (PA6/6), furnished as pellets.											
Nylene 5133	NC	0.75	HB	-	-	65	65	65	-	-	-
Polyamide 66 (PA66), "Nylamid", furnished as pellets.											
5133 MS	BK	0.75	HB	-	-	65	65	65	-	-	-
5220 MS	BK	0.75	HB	-	-	65	65	65	-	-	-
5233 MS	BK	0.75	HB	-	-	65	65	65	-	-	-
Polyamide 66 (PA66), "NYLENE", furnished as pellets.											
5113	NC	0.75	HB	-	-	65	65	65	-	-	-
Polyamide 66 (PA66), furnished as pellets, granular material.											
132	RD	0.75	-	-	-	120	95	105	0	-	0
		1.8	V-0	3	0	120	95	105			
	NC, BK	3.3	V-2	2	0	120	95	105			
	YL	6.0	V-2	1	0	120	95	105			
132HS	RD	0.75	-	-	-	130	100	100	-	-	-
		1.8	V-0	-	-	130	100	100			
	NC, BK	3.3	V-2	-	-	130	100	100			
	YL	6.0	V-2	-	-	130	100	110			
4114	NC	0.83	HB	-	-	130	100	100	-	-	-
		1.6	HB	-	-	130	105	105			
		3.0	HB	-	-	130	105	110			
F660-HA2 BLACK	BK	0.75	V-2	-	-	65	65	65	-	-	-
F660-HA2 WHITE	WT	1.5	V-2	-	-	65	65	65	-	-	-
Nylamid 413-33	BK	1.5	HB	-	-	65	65	65	-	-	-
Nylene 132HSSP-UV	WT	1.5	HB	-	-	65	65	65	-	-	-
Polyamide 66 (PA66).											
Nylene 5120-01 FR BK	BK	0.75	V-0	-	-	65	65	65	-	-	-
		1.5	V-0	-	-	65	65	65			
		3.0	V-0	-	-	65	65	65			
Polybutylene Terephthalate (PBT), furnished as pellets.											
PBT120G30FRBK	BK	0.75	V-2	-	-	75	75	75	-	-	-
		1.5	V-0	-	-	75	75	75			
Vexel 4200SE0	NC	0.75	V-2	-	-	75	75	75	-	-	-
		1.5	V-0	-	-	75	75	75			
Polycarbonate (PC), "Naxel", furnished as pellets.											
PC 704SFE0	NC	3.0	V-0, 5VA	-	-	80	80	80	-	-	-
Polycarbonate (PC), furnished as pellets.											
PC 45 G FR	NC, BK	1.5	V-0	-	-	80	80	80	-	-	-
	GY	3.0	V-0, 5VA	-	-	80	80	80			
PC 502	BK	1.5	V-0	-	-	80	80	80	-	-	-
PC-524	ALL	0.8	V-2	3	0	80	80	80	-	-	-
		1.5	V-2	2	0	120	125	125			
Polyphenylene Oxide (PPHOX), furnished as pellets.											
Norpex AX190	GN, BK	0.75	V-2	-	-	50	50	50	-	-	-
		1.5	V-0	-	-	50	50	50			
Norpex AX190 WHITE	WT	1.5	V-0	-	-	50	50	50	-	-	-
		3.0	V-0, 5VA	-	-	50	50	50			
Norpex AX20MR FR	BK	1.5	V-0	-	-	50	50	50	-	-	-
		3.0	5VA	-	-	50	50	50			
Norpex AX265 FR	GY	1.5	V-1	-	-	50	50	50	-	-	-
Norpex AX30GF	BK	1.5	HB	-	-	50	50	50	-	-	-

Marking: Company name and material designation on container, wrapper or finished part.

A SCHULMAN GMBH

E86615

HUETTENSTRASSE 211 50170, KERPEN GERMANY

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Acetal "Polyoxymethylene" (POM), "SCHULAFORM", furnished as pellets.											
9 A	ALL	1.5	HB	-	-	50	50	50	-	-	-
9 B	ALL	1.5	HB	-	-	50	50	50	-	-	-
9 D	ALL	1.5	HB	-	-	50	50	50	-	-	-
9 F	ALL	1.5	HB	-	-	50	50	50	-	-	-
Acrylate Styrene Acrylonitrile (ASA), "POLYMAN (ASA)", furnished as pellets.											
WR/MI	WT	1.5	HB	4	0	50	50	50	-	-	-
		3.0	HB	2	0	50	50	50			
Acrylonitrile Butadiene Styrene (ABS), "POLYFLAM", furnished as pellets.											
RABS 90000 UV5	ALL	1.5	V-0	3	3	60	60	60	-	-	-
		3.0	V-0	0	3	60	60	60			
RABS 90000 UV5 Foamed(e)											
	ALL	3.8	V-0, 5VA	-	-	60	60	60	-	-	-
RABS 90000 UV6	ALL	1.5	V-0	4	1	60	60	60	-	-	-
		3.0	V-0	3	1	60	60	60			
RABS 90000 UV6 5VB	ALL	1.5	V-0, 5VB	-	-	60	60	60	-	-	-
		2.0	V-0, 5VA	-	-	60	60	60			
RABS 90350 UV5	ALL	1.5	V-0	-	-	60	60	60	-	-	-
RABS 90950 UV5	ALL	1.5	V-0	-	-	60	60	60	-	-	-
Acrylonitrile Butadiene Styrene (ABS), "POLYMAN (ABS)", furnished as pellets.											
K1836	WT	1.5	HB	4	2	60	60	60	-	-	-
		3.0	HB	3	0	60	60	60			
LP 137 A	NC, BK	1.5	HB	4	0	60	60	60	-	-	-



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2012 PLASTICS RECOGNIZED COMPONENT DIRECTORY

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PLASTICS (QMFZ2)

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
LP 320	ALL	3.0 0.8 1.5 3.0	HB HB HB HB	4 3 3 3	0 1 0 0	60 90 90 90	60 80 80 80	60 95 95 95	1	1	0
M/MI-A K1332	WT, GY, BK	1.5 3.0	HB HB	4 4	0 0	60 60	60 60	60 60	-	-	-
M/MI A 40	ALL	1.5 3.0	HB HB	4 3	1 0	60 60	60 60	60 60	-	-	-
M/MI-A	ALL	1.5	HB	-	-	60	60	60	-	-	-
M/MI-A F UV	WT	1.5	HB	-	-	60	60	60	-	-	-
M/SHI A	ALL	1.5	HB	-	-	60	60	60	-	-	-
M/TK	ALL	1.5	HB	-	-	60	60	60	-	-	-
M/TK H	GY	1.5 3.0	HB HB	4 3	1 1	60 60	60 60	60 60	-	-	-
Acrylonitrile Butadiene Styrene/Polyamide (ABS/PA), "SCHULABLEND (ABS/PA)", furnished as pellets.											
M/MK	ALL	1.5	HB	4	0	60	60	60	-	-	-
M/MK NC800	ALL	1.5 3.0	HB HB	3 2	0 0	60 60	60 60	60 60	-	-	-
Acrylonitrile Butadiene Styrene/Polycarbonate (ABS/PC), "SCHULABLEND (PC/ABS)", furnished as pellets.											
M/MB 6 SF	ALL	1.5 3.0	HB HB	4 3	0 0	60 60	60 60	60 60	-	-	-
Polyamide 6 (PA6), "SCHULAMID", furnished as pellets.											
6 BNT 3000 F	ALL	0.75	HB	-	-	65	65	65	-	-	-
6 GB 30	ALL	1.5 3.0	HB HB	3 3	2 1	65 65	65 65	65 65	-	-	-
6 GBF 3015 FR 4	ALL	1.0	V-0	-	-	65	65	65	-	-	-
6 GF 10 FR 4 K1681	ALL	0.38 0.75 1.5 3.0	V-2 V-2 V-2 V-2	4 4 2 0	0 0 0 0	130 130 130 130	75 90 100 120	100 110 120 120	-	-	2
6 GF 10 FR, 6 MGF 45 FR 6	ALL	1.5 3.0	V-0 V-0	2 1	0 0	65 65	65 65	65 65	-	-	-
6 GF 15	ALL	0.75	HB	-	-	65	65	65	-	-	-
6 GF 15 FR 4 K1681	ALL	0.38 0.75 1.5 3.0	V-2 V-2 V-2 V-2	3 0 0 0	0 0 0 0	130 130 130 130	90 100 100 120	100 110 120 120	-	-	2
6 GF 15 H	ALL	0.75 1.5 3.0	HB HB HB	- - -	- - -	130 130 130	125 125 125	130 130 130	-	-	-
6 GF 15 HV	ALL	0.75	HB	-	-	65	65	65	-	-	-
6 GF 25	ALL	1.5	HB	-	-	65	65	65	-	-	-
6 GF 25 H	ALL	0.75 1.5 3.0	HB HB HB	- - -	- - -	125 125 125	115 120 125	130 130 130	-	-	-
6 GF 30	ALL	1.5 3.0	HB HB	3 0	0 0	65 65	65 65	65 65	0	-	-
6 GF 30 FR 2	ALL	0.75 1.5 3.0	V-0 V-0 V-0	0 0 0	0 0 0	65 65 65	65 65 65	65 65 65	-	-	-
6 GF 30 FR 4	ALL	0.75 1.5 3.0	V-0 V-0 V-0	0 0 0	0 0 0	65 65 65	65 65 65	65 65 65	-	-	2
6 GF 30 H	ALL	0.75 1.5 3.0	HB HB HB	- - -	- - -	125 125 125	115 120 125	130 130 130	-	-	-
6 GF 30 HI FR 4	ALL	0.75 1.5 3.0	V-0 V-0 V-0	2 0 0	0 0 0	65 65 65	65 65 65	65 65 65	-	-	-
6 GF 30 HI K1753	ALL	1.5	HB	-	-	65	65	65	-	-	-
6 GF 30 HI K1871	ALL	1.5 3.0	HB HB	4 4	0 0	65 65	65 65	65 65	-	-	0
6 GF 30 HI K1886	ALL	1.5 3.0	HB HB	3 0	0 0	65 65	65 65	65 65	0	-	-
6 GF 35	ALL	1.5 3.0	HB HB	2 0	0 0	65 65	65 65	65 65	1	-	-
6 GF 35 H	ALL	0.75 1.5 3.0	HB HB HB	5 5 4	0 0 0	125 125 125	115 120 125	130 130 130	-	-	1
6 GF 5 FR 4 K1681	ALL	0.38 0.75 1.5 3.0	V-2 V-2 V-2 V-2	4 4 2 0	0 0 0 0	130 130 130 130	75 90 100 120	100 110 120 120	-	-	2
6 GF 50	ALL	1.5 3.0	HB HB	1 0	0 0	65 65	65 65	65 65	-	-	-
6 GF 50 H	ALL	0.75 1.5 3.0	HB HB HB	- 1 0	- 0 0	125 125 125	115 120 125	130 130 140	-	-	-
6 GF 50 HI K1666	ALL	1.5	HB	-	-	65	65	65	-	-	-
6 GF 7 FR 4 K1681	ALL	0.38 0.75 1.5 3.0	V-2 V-2 V-2 V-2	4 4 2 0	0 0 0 0	130 130 130 130	75 90 100 120	100 110 120 120	-	-	2
6 HV 0 H FR	ALL	0.75-0.85	V-0	-	-	65	65	65	-	-	-
6 HV 15	ALL	0.71 1.5 3.0	- HB HB	- 3 2	- 0 0	130 130 130	- 70 70	- 85 85	0	7	0
6 HV 2 FR	ALL	0.75	V-2	-	-	65	65	65	-	-	-
6 MT 20 H FR 4	BL	1.5	V-0	-	-	65	65	65	-	-	-



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Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
6 MV 13 F	NC	0.75	V-2	-	-	120	65	85	0	7	0
	ALL	1.5	V-2	4	0	120	65	85			
		3.0	V-2	3	0	120	70	85			
6 MV 14	ALL	1.5	V-2	4	0	65	65	65	0	-	-
		3.0	V-2	3	0	65	65	65			
6 MV 14 FR	ALL	0.38	-	-	-	130	80	105	0	5	0
		0.75	V-0	3	0	130	80	105			
		1.5	V-0	3	0	130	85	115			
		3.0	V-0	2	0	130	85	115			
6 MV 14 FR 4 K1681	ALL	0.38	V-2	4	0	130	75	100	-	-	2
		0.75	V-2	4	0	130	90	110			
		1.5	V-2	2	0	130	100	120			
		3.0	V-2	0	0	130	100	120			
6 MV HI	ALL	1.5	HB	4	0	65	65	65	-	-	-
		3.0	HB	3	0	65	65	65			
6 MV SHI	ALL	1.5	HB	-	-	65	65	65	-	-	-
6 NV 12	ALL	0.71	-	-	-	130	-	65	0	-	0
		1.5	V-2	4	0	130	-	70			
		3.0	V-2	4	0	130	-	70			
6 NV 12 FR	NC	0.38	V-0	-	-	-	-	-	0	5	0
	ALL	0.75	V-0	3	0	130	75	95			
		1.5	V-0	3	0	130	75	95			
		3.0	V-0	2	0	130	80	95			
6 RBL 3000	BK	1.5	HB	-	-	65	65	65	-	-	-
6 RBL MV	BK	1.5	HB	-	-	65	65	65	-	-	-
Polyamide 6/3 (PA6/3), furnished as pellets.											
blend TROGAMID T5000/T-GF35	NC	0.7	HB	-	-	65	65	65	-	-	-
		3.0	HB	-	-	65	65	65			
Polyamide 6/Acrylonitrile Butadiene Styrene (PA6/ABS), "POLYFLAM", furnished as pellets.											
RMMK 125	ALL	1.5	V-0	-	-	60	60	60	-	-	-
Polyamide 66 (PA66), glass reinforced, "SCHULAMID", furnished as pellets.											
66 GF 15 FR 2	ALL	0.8	V-0	0	2	65	65	65	-	-	-
		1.6	V-0	0	1	65	65	65			
		3.0	V-0	0	1	65	65	65			
66 GF 20 FR 2	ALL	0.8	V-0	0	2	65	65	65	-	-	-
		1.6	V-0	0	1	65	65	65			
		3.0	V-0	0	1	65	65	65			
66 GF 25 FR 2	ALL	0.8	V-0	0	2	65	65	65	-	-	-
		1.6	V-0	0	1	65	65	65			
		3.0	V-0	0	1	65	65	65			
66 GF 30 FR 2	ALL	0.8	V-0	0	2	65	65	65	-	-	0
		1.6	V-0	0	1	65	65	65			
		3.0	V-0	0	1	65	65	65			
Polyamide 66 (PA66), "SCHULAMID", furnished as pellets.											
66 GBF 3020 FR 4	ALL	1.5	V-0	-	-	65	65	65	-	-	-
66 GBF 3020 FR 4 K1921	BK	1.5	V-0	-	-	65	65	65	-	-	-
66 GF 15 H	ALL	0.75	HB	-	-	120	100	110	-	-	-
		1.5	HB	-	-	120	110	120			
		3.0	HB	-	-	120	120	130			
66 GF 25	ALL	1.5	HB	-	-	65	65	65	-	-	-
66 GF 25 FR 5 A(f2)	ALL	0.50	V-0	0	0	130	105	105	-	-	1
		0.75	V-0	0	0	130	105	105			
		0.85	V-0	0	0	130	105	105			
		1.5	V-0, 5VA	0	0	130	110	120			
		3.0	V-0, 5VA	0	0	130	110	120			
66 GF 25 FR 5(f2)	ALL	0.50	V-0	0	0	130	105	105	-	-	1
		0.75	V-0	0	0	130	105	105			
		0.85	V-0	0	0	130	105	105			
		1.5	V-0, 5VA	0	0	130	110	120			
		3.0	V-0, 5VA	0	0	130	110	120			
66 GF 25 H	ALL	0.75	HB	-	-	120	100	110	-	-	-
		1.5	HB	-	-	120	105	120			
		3.0	HB	-	-	120	115	130			
66 GF 30	ALL	1.5	HB	-	-	65	65	65	-	-	-
66 GF 30 H	ALL	0.75	HB	3	0	120	100	110	-	-	1
		1.5	HB	1	0	120	105	120			
		3.0	HB	0	0	120	115	130			
66 GF 35 H	ALL	0.75	HB	-	-	120	100	110	-	-	-
		1.5	HB	0	0	120	105	120			
		3.0	HB	0	0	120	115	130			
66 GF 50 H	ALL	0.75	HB	-	-	120	105	120	-	-	-
		1.5	HB	1	1	120	105	120			
		3.0	HB	0	1	120	115	130			
66 MV 2	ALL	1.5	V-2	4	0	-	-	-	0	7	-
66 MV 2 H	ALL	1.5	V-2	4	0	-	-	-	0	7	-
66 MV 2 S	ALL	1.5	V-2	4	0	-	-	-	0	7	-
66 MV 2 SH	ALL	1.5	V-2	4	0	130	100	130	0	-	-
66 MV 2 T	ALL	1.5	V-2	4	0	-	-	-	0	7	-
66 MV 3	NC	0.75	V-2	-	-	130	65	65	-	-	-
	ALL	1.5	V-2	4	0	130	65	65			
		3.0	V-2	4	0	130	65	65			
66 MV 3 FR	ALL	0.75	V-0	4	0	130	90	120	0	5	0
		1.5	V-0	4	0	130	90	120			
		3.0	V-0	3	0	130	90	120			
66 MV SHI	ALL	1.5	HB	-	-	65	65	65	-	-	-
66 MW 30 FR 4	ALL	0.75	V-2	0	0	65	65	65	-	-	2
		1.5	V-0	0	0	65	65	65			
		3.0	V-0	0	0	65	65	65			



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Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
66 SK 1000	ALL	1.5 3.0	HB HB	4 2	0 0	65 65	65 65	65 65	0	-	-
Polyamide6/Polypropylene (PA6/PP), "POLYFLAM", furnished as pellets.											
RMMZ 5000	WT	1.5	V-2	-	-	65	65	65	-	-	-
Polybutylene Terephthalate (PBT), "SCHULADUR", furnished as pellets.											
A BS 40 HI	ALL	1.5 3.0	HB HB	3 3	3 2	75 75	75 75	75 75	-	-	-
A GF 15 FR 1	ALL	0.75 1.5 3.0	V-0 V-0 V-0	3 3 1	0 0 0	75 75 75	75 75 75	75 75 75	-	-	2
A GF 15 HF FR 1	ALL	0.75	V-0	-	-	75	75	75	-	-	-
A GF 20 FR 1	ALL	0.75	V-0	-	-	75	75	75	-	-	-
A GF 20 HF FR 1	ALL	0.75	V-0	-	-	75	75	75	-	-	-
A GF 25 FR 1	ALL	0.75	V-0	-	-	75	75	75	-	-	-
A GF 25 HF FR 1	ALL	0.75	V-0	-	-	75	75	75	-	-	-
A GF 30	ALL	0.75 1.5 3.0	HB HB HB	3 1 0	0 0 0	75 75 75	75 75 75	75 75 75	0	-	-
A GF 30 FR 1	ALL	0.75	V-0	-	-	75	75	75	-	-	-
A GF 30 HF FR 1	ALL	0.75	V-0	-	-	75	75	75	-	-	-
A GF 30 HF2 FR 1	ALL	3.0 1.5	V-0 V-0	2 3	1 1	75 75	75 75	75 75	-	-	2
A MV 14	ALL	1.5	HB	-	-	75	75	75	-	-	-
A MV 14 SHI FR 1	ALL	0.75 1.5 3.0	V-0 V-0 V-0	4 3 2	0 0 0	140 140 140	110 110 110	130 130 130	-	-	0
A MV 14 SHI FR 1(f1)	WT, BK	0.75 1.5 3.0	V-0 V-0 V-0	4 3 2	0 0 0	140 140 140	110 110 110	130 130 130	-	-	0
A NV 12	ALL	1.5	HB	-	-	75	75	75	-	-	-
A3 GF 15 FR 1	ALL	0.75 3.0	V-0 V-0	- -	- -	75 75	75 75	75 75	-	-	-
A3 GF 20 FR 1	ALL	0.75 3.0	V-0 V-0	- -	- -	75 75	75 75	75 75	-	-	-
A3 GF 25 FR 1	ALL	0.75 3.0	V-0 V-0	- -	- -	75 75	75 75	75 75	-	-	-
A3 GF 30 FR 1	ALL	0.75 3.0	V-0 V-0	- -	- -	75 75	75 75	75 75	-	-	-
Polybutylene/Polyethylene Terephthalate (PBT/PET), "SCHULADUR", furnished as pellets.											
PCR GF 30	ALL	1.5	HB	-	-	75	75	75	-	-	-
PCR GF 45	ALL	1.5	HB	-	-	75	75	75	-	-	-
Polycarbonate (PC), "POLYMAN (PC)", furnished as pellets.											
XP 31 R	ALL	1.5 3.0	HB HB	4 2	0 0	80 80	80 80	80 80	-	-	-
Polycarbonate/Acrylonitrile Butadiene Styrene (PC/ABS), "POLYFLAM", furnished as pellets.											
RMMB 40400	ALL	1.5 3.0	V-0 V-0	3 2	3 2	60 60	60 60	60 60	-	-	0
Polyethylene Terephthalate (PET), glass reinforced, flame retardant, "SCHULADUR", furnished as pellets.											
E GF 30 FR 4A	ALL	0.75 1.5 3.0	V-0 V-0 V-0	0 0 0	0 0 0	75 75 75	75 75 75	75 75 75	-	-	2
Polypropylene (PP), "POLYFLAM", furnished as pellets.											
RFPF 2318 GFC-CS1	ALL	1.7	V-0	-	-	65	65	65	-	-	-
RIPP 2000@+@+\$(f1)	ALL	1.5 3.0	V-2 V-2	3 2	0 0	65 65	65 65	65 65	-	-	-
RIPP 3125	ALL	1.5 3.0	V-0 V-0	- -	- -	65 65	65 65	65 65	-	-	-
RIPP 3125 CS1	ALL	1.5 3.0	V-0 V-0	- -	- -	65 65	65 65	65 65	-	-	-
RIPP 3625 CS1	ALL	1.5	V-0	-	-	65	65	65	-	-	-
RIPP 374 ND CS1	ALL	1.5	V-0	-	-	50	50	50	-	-	-
RIPP 490	ALL	1.5 3.0	V-0 V-0	3 0	0 0	65 65	65 65	65 65	-	-	0
RIPP 510 D	ALL	0.75 1.5 3.0	V-2 V-2 V-2	- 3 2	- 0 0	65 65 65	65 65 65	65 65 65	0	6	0
RPP 1275-@@+\$\$	ALL	0.75 1.5 3.0	V-0 V-0 V-0	3 2 2	0 0 0	115 115 115	115 115 115	115 115 115	0	5	0
RPP 2000@+@+\$(f1)	ALL	0.75 1.5 3.0	V-2 V-2 V-2	4 3 2	0 0 0	65 65 65	65 65 65	65 65 65	-	-	-
RPP 3130 CS1	ALL	1.5 3.0	V-0 V-0	- -	- -	65 65	65 65	65 65	-	-	-
RPP 3225 CS1	ALL	1.5	V-0	-	-	65	65	65	-	-	-
RPP 371 ND	NC	0.75	V-0	4	0	105	105	105	1	6	0
RPP 371 ND CS1	ALL	1.5	V-0	-	-	65	65	65	-	-	-
RPP 374 ND CS1	ALL	1.5 3.0	V-0 V-0	3 2	0 0	105 105	105 105	105 105	-	-	-
RPP 374 ND CS1 5V (f1)	ALL	1.5 1.8 3.0	V-0 V-0, 5VA V-0, 5VA	3 3 2	0 0 0	105 105 105	105 105 105	105 105 105	0	5	0
RPP 374 ND CS1 5V-1505 (f1)	WT	1.5 1.8 3.0	V-0 V-0, 5VA V-0, 5VA	3 3 2	0 0 0	105 105 105	105 105 105	105 105 105	0	5	0
RPP 4225 CS1	ALL	1.6	V-0	0	0	65	65	65	-	-	-



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Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
RPP 490 CS1	ALL	3.0	V-0	0	0	65	65	65	-	-	-
RPP 500 D	ALL	1.5	V-2	3	0	65	65	65	0	6	0
RPP 60335 CS1 5V	ALL	3.0	V-2	2	0	65	65	65	-	-	-
		0.75	V-0	4	1	65	65	65	-	-	-
		1.5	V-0	2	0	65	65	65	-	-	-
		2.0	V-0, 5VB	2	0	65	65	65	-	-	-
		3.0	V-0, 5VB	1	0	65	65	65	-	-	-
Polypropylene (PP), "POLYFORT", furnished as pellets.											
FIPP 20 T K1742	ALL	1.5	HB	-	-	65	65	65	-	-	-
FIPP 20 T LE K1731	ALL	3.0	HB	3	0	65	65	65	-	-	-
FIPP 30 GFC	ALL	1.5	HB	-	-	65	65	65	-	-	-
FPP 20 GF	ALL	3.0	HB	2	0	65	65	65	-	-	-
FPP 20 GFC	ALL	1.5	HB	3	0	65	65	65	-	-	-
FPP 20 T	ALL	3.0	HB	2	0	65	65	65	-	-	-
FPP 30 GFC	ALL	1.5	HB	3	1	65	65	65	-	-	-
FPP 40 T	ALL	3.0	HB	2	0	65	65	65	-	-	-
		1.5	HB	3	0	65	65	65	-	-	-
		3.0	HB	2	0	65	65	65	-	-	-
Polystyrene (PS), "POLYFLAM", furnished as pellets.											
HSF 16	ALL	1.5	V-0	-	-	50	50	50	-	-	-
HSF 20 B	ALL	3.0	V-0	-	-	50	50	50	-	-	-
HSF 20 B Foamed (d)	ALL	1.5	V-0	-	-	50	50	50	-	-	-
HSF 26	ALL	3.85	V-0, 5V	-	-	50	50	50	-	-	-
HSF 26 Foamed (e)	ALL	1.5	V-0	-	-	50	50	50	-	-	-
HSF 33 E	ALL	3.8	V-0, 5VA	-	-	50	50	50	-	-	-
HSF 36	ALL	1.5	V-0	-	-	50	50	50	-	-	-
HSF 36 Foamed (b)	ALL	3.0	V-0	-	-	50	50	50	-	-	-
HSF 743	ALL	3.9	V-0, 5VA	-	-	50	50	50	-	-	-
HSF 941	NC, BK	2.0	V-0	-	-	50	50	50	-	-	-
SDR 101	ALL	1.5	V-2	-	-	50	50	50	-	-	-
SDR 5000@+@+\$	ALL	3.0	V-2	2	2	50	50	50	-	-	-
SDR 554	ALL	1.4	V-2	-	-	50	50	50	-	-	-
SDR 741	GY, BK	1.5	V-2	-	-	50	50	50	-	-	-
SDR 921	ALL	1.5	V-2	-	-	50	50	50	-	-	-
Polystyrene (PS), "POLYMAN (PS)", furnished as pellets.											
604	ALL	1.5	HB	-	-	50	50	50	-	-	-
Styrene Acrylonitrile (SAN), "POLYMAN (SAN)", furnished as pellets.											
29/10	ALL	1.5	HB	-	-	50	50	50	-	-	-

\$ - Represents a two to five digit number 00-99999 incl., or none.

(b) - Density range 1.04 - 1.15 g/cc.

(d) - Density range 0.95 - 1.05 g/cc.

(e) - Density range 1.03 - 1.33 g/cc.

(f1) - Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.
(f2) - Subjected to one or more of the following tests: Ultraviolet Light, Water Exposure or Immersion in accordance with UL 746C, where the acceptability for outdoor use is to be determined by UL.

+ - Represents one letter A-Z incl. or no letter.

@ - Represents a single digit number 0-9 incl., or none.

NOTE - All designations may be followed by numerical suffixes indicating color

Marking: Company name or tradename "POLYFLAM", "POLYFORT", "POLYLUX (MABS)", "POLYMAN (ABS)", "POLYMAN (PC)", "POLYMAN (PS)", "POLYMAN (SAS)", "SCHULABLEND (ABS/PA)", "SCHULABLEND (PC/ABS)", "SCHULADUR", "SCHULAFORM", "SCHULAMID" and material designation on container, wrapper or finished part.

A SCHULMAN INC

3550 W MARKET ST, AKRON OH 44333

E51193

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Acetal "Polyoxymethylene" (POM), furnished as pellets.											
AC-3000-@+@+@+\$	NC, BK	1.5	HB	-	-	50	50	50	-	-	-
AC-900-@+@+@+\$	NC, BK	1.7	HB	-	-	50	50	50	-	-	-
Acrylonitrile Butadiene Styrene (ABS), conductive, "COMSHIELD", furnished as pellets.											
830-@+@+@+\$	NC	3.4	V-0	-	-	60	60	60	-	-	-
Acrylonitrile Butadiene Styrene (ABS), "POLYFABS", furnished as pellets.											
ABS 135-31	BK	0.75	HB	3	0	90	80	90	0	1	0
		1.5	HB	3	0	90	80	90	-	-	-
		3.0	HB	3	0	90	80	90	-	-	-
ABS 135-@+@+@+\$	NC, BK	0.75	HB	3	0	90	80	90	0	1	0
		1.5	HB	3	0	90	80	90	-	-	-
		3.0	HB	3	0	90	80	90	-	-	-
CB 135-@+@+@+\$	ALL	1.5	HB	3	0	90	80	90	0	1	0
		3.0	HB	3	0	90	80	90	-	-	-
E-12683-@+@+@+\$	ALL	3.0	-	-	-	60	60	60	-	-	2
E-15376-@+@+@+\$ 220-3020-@+@+@+\$	ALL	3.0	-	-	-	60	60	60	-	-	1
Acrylonitrile Butadiene Styrene (ABS), "POLYFLAM", furnished as pellets.											
RABS 680-@+@+@+\$	NC	1.5	V-0	2	3	60	60	60	-	-	-



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Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
RABS 930-@+++ \$+	NC, WT, BK	1.9	V-0	-	-	60	60	60	-	-	-
	ALL	3.0	V-0	-	-	60	60	60	-	-	-
	NC	3.0	5VA	-	-	60	60	60	-	-	-
Acrylonitrile Butadiene Styrene (ABS), furnished as pellets.											
700-@+++ \$+	ALL	1.5	HB	-	-	60	60	60	-	-	-
702-@+++ \$+	ALL	1.5	HB	-	-	60	60	60	-	-	-
847-@+++ \$+	NC	1.5	HB	-	-	60	60	60	-	-	-
ABS-700-@+++ \$+, ABS-702-@+++ \$+											
	ALL	1.5	HB	-	-	60	60	60	-	-	-
ABS-873-31	NC	1.5	HB	-	-	60	60	60	-	-	-
ABS-873-@+++ \$+	NC, BK	1.5	HB	-	-	60	60	60	-	-	-
Acrylonitrile Butadiene Styrene/Acrylic/Polycarbonate (ABS/Acrylic/PC), furnished as pellets.											
ABS-847-@+++ \$+	NC	1.5	HB	-	-	60	60	60	-	-	-
Acrylonitrile Butadiene Styrene/Polyvinylchloride (ABS/PVC), "POLYMAN", furnished as pellets.											
506-@+++ \$+	ALL	1.5	HB	2	1	95	65	95	1	7	1
		3.0	HB	0	0	95	70	95			
506FR-@+++ \$+	BK	1.7	V-0	-	-	-	-	-	-	-	-
507-@+++ \$+(f2)	ALL	1.7	V-0	1	1	95	65	95	3	7	0
		3.0	V-0	1	1	95	70	95			
508-@+++ \$+(f2)	ALL	1.7	V-0	1	1	95	65	95	3	7	0
		3.0	V-0	1	1	95	70	95			
509-@+++ \$+	GY	1.5	V-1	0	1	110	105	110	3	6	2
	ALL	1.7	V-0	0	1	110	105	110			
		2.3	V-0	0	1	110	105	110			
		3.0	V-0	0	1	110	105	110			
510-@+++ \$+	ALL	1.7	V-0	1	0	50	50	50	2	7	1
	GY	2.9	5VA	0	0	95	60	95			
		3.0	V-0	0	0	95	60	95			
511-@+++ \$+	ALL	1.7	V-0	1	0	95	50	95	2	7	1
	BK	1.8	5VA	0	0	95	60	95			
	GY	2.9	5VA	0	0	95	60	95			
		3.0	V-0	0	0	95	60	95			
512-@+++ \$+	GY	1.7	V-0	0	0	50	50	50	2	-	2
	ALL	2.3	V-0	0	0	50	50	50			
		3.0	V-0	0	1	90	75	90			
513-@+++ \$+	BK	3.0	V-0	-	-	-	-	-	-	-	-
526-@+++ \$+	ALL	1.5	V-0	0	0	110	105	110	2	6	1
		3.0	V-0	0	0	110	105	110			
832-1000HHG-@+++ \$+(f2)											
	GY	1.5	V-0	-	-	50	50	50	-	-	-
832-1000XXG-@+++ \$+	GY	1.9	V-0	-	-	50	50	50	-	-	-
832-3010-@+++ \$+	GY	3.0	V-0	-	-	50	50	50	-	-	-
832-3010G-@+++ \$+(f2)											
	GY	1.5	V-0	-	-	50	50	50	-	-	-
Linear Low Density Polyethylene (LLDPE), "POLYAXIS", furnished as pellets or powder.											
CP-3594	ALL	1.5	HB	-	-	50	50	50	-	-	-
		3.0	HB	-	-	50	50	50	-	-	-
Olefin, AS alloy, "POLYMAN", furnished as pellets.											
552-@+++ \$+(f2)	GY	1.5	V-1	0	0	50	50	50	2	6	1
	NC	1.5	V-0	0	0	50	50	50			
	NC, GY	3.0	V-0	0	0	50	50	50			
Olefin, AS-alloy, "POLYMAN", furnished as pellets.											
514-@+++ \$+, 550-@+++ \$+	NC, GY	1.5	HB	-	-	50	50	50	-	-	-
551-@+++ \$+	NC, WT, RD	2.5	5VA	-	-	50	50	50	-	-	-
		3.0	V-0	-	-	50	50	50	-	-	-
Polyamide (PA), "SCHULAMID", furnished as pellets.											
E-14152-@+++ \$+	AL, BK	1.5	V-0	-	-	65	65	65	-	-	-
Polyamide (PA), "VOLOY", furnished as pellets.											
681-@+++ \$+, 682-@+++ \$+, 683-@+++ \$+	BK	3.0	V-0	-	-	130	130	130	-	-	-
684-@+++ \$+, 685-@+++ \$+											
	BK	1.5	V-0	-	-	130	130	130	-	-	-
686-@+++ \$+	BK	0.51	V-0	-	-	65	65	65	-	-	-
Polyamide 6 (PA6), "HILOY", furnished as pellets.											
610-@+++ \$+	NC, GY, BK	1.5	HB	-	-	65	65	65	-	-	-
Polyamide 6 (PA6), "SCHULAMID", furnished as pellets.											
6 GF 33 H-@+++ \$+	ALL	0.75	HB	-	-	65	65	65	-	-	-
6 GF 33 HI-@+++ \$+	NC, GY, BK	1.5	HB	-	-	65	65	65	-	-	-
6 MV5-@+++ \$+	NC	1.8	V-2	-	-	65	65	65	-	-	-
610-2355-@+++ \$+	NC, BK	1.5	HB	-	-	65	65	65	-	-	-
610-3033-@+++ \$+	BK	1.5	HB	-	-	-	-	-	-	-	-
6GF30-@+++ \$+	NC, BK	1.5	HB	-	-	65	65	65	-	-	-
Polyamide 6/6 (PA6/6), "AQUALOY", furnished as pellets.											
624-@+++ \$+	NC, BK	1.5	HB	-	-	65	65	65	-	-	-
Polyamide 6/6 (PA6/6), "SCHULAMID", furnished as pellets.											
621-3030LB-@+++ \$+	BK	1.5	HB	-	-	65	65	65	-	-	-
		3.0	HB	-	-	65	65	65	-	-	-
66 MV3-@+++ \$+	BK	1.5	V-2	-	-	65	65	65	-	-	-
E-16445-@+++ \$+	NC	1.5	HB	-	-	65	65	65	-	-	-
ECF-13978-@+++ \$+	NC	1.5	HB	-	-	65	65	65	-	-	-
Polyamide 66 (PA66), "SCHULAMID", furnished as pellets.											
620-3033-@+++ \$+	NC, BK	1.5	HB	-	-	65	65	65	-	-	-
66 GF 13 HI-IMP-@+++ \$+											
	NC, BK	1.5	HB	-	-	65	65	65	-	-	-
66 GF 13-@+++ \$+	NC	1.5	HB	-	-	65	65	65	-	-	-
66 MV 3 FR-@+++ \$+	ALL	0.75	V-0	4	0	130	90	120	0	5	0
		1.5	V-0	4	0	130	90	120			
		3.0	V-0	3	0	130	90	120			
66 MV3 HI-IMP-@+++ \$+											



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Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
	NC	0.66	HB	-	-	65	65	65	-	-	-
	BK	1.5	HB	-	-	65	65	65	-	-	-
66 MV3-@++\$+	BK	1.5	V-2	-	-	65	65	65	-	-	-
D 66 FR-A-@++\$+	NC, BK	0.82	V-0	3	0	130	95	110	0	-	0
		1.5	V-0	3	0	130	95	110			
		3.0	V-0	2	0	130	95	110			
E-16438-@++\$+	BK	1.5	HB	-	-	65	65	65	-	-	-
E-17267-@++\$+(f1)	BK	1.5	HB	-	-	65	65	65	-	-	-
N69-31HS-@++\$+	BK	1.5	HB	-	-	65	65	65	-	-	-
Polybutylene Terephthalate (PBT), "VOLOY", furnished as pellets.											
413-@++\$+	NC	1.5	V-0	-	-	75	75	75	-	-	-
415-@++\$+	BK	1.8	V-0	-	-	75	75	75	-	-	-
415BLK-@++\$+	BK	1.5	V-2	-	-	75	75	75	-	-	-
Polybutylene Terephthalate (PBT), furnished as pellets.											
410-3030-100-@++\$+											
	NC	1.5	V-0	-	-	75	75	75	-	-	-
414-@++\$+	NC	1.5	V-0	-	-	75	75	75	-	-	-
431-@++\$+	NC	1.5	V-0	-	-	75	75	75	-	-	-
E-10559-@++\$+	NC, BK	1.5	V-0	-	0	75	75	75	4	6	3
		3.0	V-0	-	1	75	75	75			
		6.0	V-0	-	0	75	75	75			
E-12085-@++\$+	BK	1.5	V-0	-	-	75	75	75	-	-	-
Polybutylene/Polyethylene Terephthalate (PBT/PET), "SCHULADUR".											
PCR GF 30	ALL	1.5	HB	-	-	75	75	75	-	-	-
Polycarbonate (PC), conductive, "COMSHIELD", furnished as pellets.											
850-@++\$+	NC	6.0	V-0	-	-	80	80	80	-	-	-
Polycarbonate (PC), "COMTUF", furnished as pellets.											
5011UV-31-@++\$+	BK, NC, WT	1.5	V-0	3	4	80	80	80	3	6	4
		3.0	V-0, 5V-A	2	1	80	80	80			
Polycarbonate (PC), alloy, furnished as pellets.											
E-16845B-@++\$+, E-17158-@++\$+											
	BK	1.5	HB	-	-	80	80	80	-	-	-
E-17194-@++\$+	BK	1.5	HB	-	-	80	80	80	-	-	-
Polycarbonate (PC), conductive, furnished as pellets.											
E-12379-@++\$+, E-14756-@++\$+											
	BK	1.5	V-0	-	-	80	80	80	-	-	-
Polycarbonate (PC), furnished as pellets.											
515-1000-@++\$+	NC	2.4	V-1	-	-	80	80	80	-	-	-
E-13725-@++\$+	GY, BK	1.5	V-0	-	-	80	80	80	-	-	-
E-14756LB-@++\$+	BK	1.5	V-2	-	-	80	80	80	-	-	-
E-15160-@++\$+	BK	1.7	V-2	-	-	80	80	80	-	-	-
E12900-@++\$+	BK	1.5	V-2	-	-	80	80	80	-	-	-
		2.4	V-0	-	-	80	80	80			
	NC, BK	3.7	V-0	-	-	80	80	80			
Polyester (PER), alloy, "VOLOY", furnished as pellets.											
411-@++\$+	BK	1.5	V-0	-	-	50	50	50	-	-	-
462-@++\$+	NC, BK	1.5	V-0	-	-	50	50	50	-	-	-
Polyester (PER), alloy, furnished as pellets.											
E-13383-@++\$+	BK	3.0	HB	-	-	-	-	-	-	-	-
E-13427G-@++\$+	GY	1.5	HB	-	-	-	-	-	-	-	-
E-15586-@++\$+, E-16017-@++\$+											
	BK	1.5	V-1	-	-	50	50	50	-	-	1
		1.9	V-1, 5VA	-	-	50	50	50			
		3.0	V-0, 5VA	-	-	50	50	50			
Polyester (PER), furnished as pellets.											
E-15900-@++\$+	BK	1.5	V-0	-	-	50	50	50	-	-	-
Polyetherimide (PEI), "POLYFLAM", furnished as pellets.											
RLP 802-@++\$+	ALL	1.5	V-0, 5VA	2	1	50	50	50	0	5	0
		3.0	V-0, 5VA	2	0	50	50	50			
Polyethylene (PE), "POLYFLAM", furnished as pellets.											
CP812-@++\$+	ALL	1.5	HB	-	-	50	50	50	-	-	-
LP 552-@++\$+	ALL	1.5	HB	-	-	50	50	50	-	-	-
LP 624-@++\$+	ALL	1.5	HB	-	-	50	50	50	-	-	-
LP 661-@++\$+	ALL	1.5	HB	-	-	50	50	50	-	-	-
RLLP 621-@++\$+	ALL	1.5	V-2	-	-	50	50	50	-	-	-
		6.0	V-0	-	-	50	50	50			
RLLP 623-@++\$+	ALL	1.5	V-2	-	-	50	50	50	-	-	-
		6.0	V-0	-	-	50	50	50			
RLP 644-@++\$+	ALL	1.5	V-0, 5VA	-	-	50	50	50	-	-	-
RLP 802-@++\$+(f1)	ALL	1.5	V-0	2	0	50	50	50	0	5	0
		3.0	V-0	2	0	50	50	50			
Polyethylene (PE), "SCHULINK", furnished as pellets.											
XL 350-@++\$+	ALL	1.5	HB	-	-	50	50	50	-	-	-
Polyethylene (PE), "Superlinear XL", furnished as pellets, powder.											
0370-@++\$+	ALL	1.5	HB	-	-	50	50	50	-	-	-
		3.0	HB	-	-	50	50	50			
Polyethylene (PE), furnished as pellets.											
LP 477	NC	1.5	HB	-	-	50	50	50	-	-	-
		3.0	HB	-	-	50	50	50			
Polyethylene Terephthalate (PET), "VOLOY", furnished as pellets.											
441B-@++\$+	BK	1.5	V-0	-	-	75	75	75	-	-	-
Polyethylene/Polypropylene (PE/PP), "POLYFLAM", furnished as pellets.											
RPP 1121-@++\$+	ALL	1.5	V-2	-	-	50	50	50	-	-	-
Polyethylene/Polypropylene (PE/PP), furnished as pellets.											
FPP 1182HU-@++\$+	GY	1.5	HB	-	-	65	65	65	-	-	-
Polypropylene (PP), "AQUALLOY", furnished as pellets.											
125-@++\$+	ALL	1.5	HB	-	-	65	65	65	-	-	-
140-@++\$+	ALL	1.5	HB	3	0	65	65	65	1	5	0
		3.0	HB	1	0	65	65	65			
145-@++\$+	ALL	1.5	HB	3	0	65	65	65	1		
		3.0	HB	0	0	65	65	65			

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Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Polypropylene (PP), "COMTUF", furnished as pellets.											
101N-@++\$+	NC	.5	HB	-	-	65	65	65	-	-	-
103B-@++\$+	BK	1.5	HB	-	-	65	65	65	-	-	-
		3.0	HB	-	-	65	65	65			
Polypropylene (PP), "HILOY", furnished as pellets.											
130-@++\$+	WT, BK	1.5	HB	-	-	65	65	65	-	-	-
E-11033-@++\$+, 123-@++\$+											
	BK	1.5	HB	-	-	65	65	65	-	-	-
	NC	3.0	HB	-	-	65	65	65			
Polypropylene (PP), "Invision", furnished as pellets.											
5240D	BK	1.5	HB	-	-	65	65	65	-	-	-
		3.0	HB	-	-	65	65	65			
Polypropylene (PP), "Polybatch", furnished as pellets.											
P81184	GY	1.5	HB	-	-	65	65	65	-	-	-
		3.0	HB	-	-	65	65	65			
Polypropylene (PP), "POLYFLAM", furnished as granular material.											
RPP-976-@++\$+	NC	1.5	V-1	0	-	65	0	65	-	7	-
		3.0	V-0	0	-	65	0	65			
RPP1403-@++\$+	ALL	1.5	V-2	-	-	65	65	65	-	-	-
Polypropylene (PP), "POLYFLAM", furnished as pellets.											
E-14661-@++\$+	BK	3.0	V-2	-	-	65	65	65	-	-	-
E-15822-@++\$+	NC, WT, GY, BK	1.5	V-2	-	-	65	65	65	-	-	-
E-17358-@++\$+	NC	1.5	V-1	-	-	65	65	65	-	-	-
E-17360-@++\$+	NC	1.5	V-0	-	-	65	65	65	-	-	-
RCB 8623RU-@++\$+(f1)											
	RD, BK	1.5	HB	3	0	105	105	105	0	5	1
		3.0	HB	2	0	105	105	105			
RCB 8623RU-@++\$+(f2)											
	ALL	1.5	HB	3	0	105	105	105	0	5	1
		3.0	HB	2	0	105	105	105			
RCB 8623U-@++\$+(f1)											
	NC, RD, BK	1.5	HB	3	0	105	105	105	0	5	1
		3.0	HB	2	0	105	105	105			
RCB 8623U-@++\$+(f2)											
	ALL	1.5	HB	3	0	105	105	105	0	5	1
		3.0	HB	2	0	105	105	105			
RIPP 2000-@++\$+(f1)	ALL	1.5	V-2	3	0	65	65	65	-	-	-
		3.0	V-2	2	0	65	65	65			
RPP 1021-@++\$+(f2)											
	NC	0.75	V-2	3	0	105	105	105	0	5	0
	ALL	1.5	V-2	3	0	105	105	105			
		3.0	V-2	2	0	105	105	105			
RPP 1058-@++\$+(r1)											
	ALL	0.75	V-2	4	0	105	105	105	0	5	0
		1.5	V-2	3	0	105	105	105			
		3.0	V-2	2	0	105	105	105			
RPP 1058H-@++\$+	ALL	0.75	V-2	4	0	105	105	105	0	5	0
		1.5	V-2	3	0	105	105	105			
		3.0	V-2	2	0	105	105	105			
RPP 1133-@++\$+	ALL	1.5	V-0, 5VA	2	0	110	95	100	0	5	0
		3.0	V-0, 5VA	0	0	110	105	110			
RPP 1158-@++\$+, RPP 1360-@++\$+											
	ALL	0.75	V-2	-	-	-	-	-	2	6	0
	NC, RD, BK	0.75	V-0	3	0	105	105	105			
	ALL	1.5	V-0	2	0	105	105	105			
		3.0	V-0	2	0	105	105	105			
RPP 1174-@++\$+	NC	0.81	V-0	3	0	105	105	105	0	6	0
	ALL	1.5	V-0	2	0	105	105	105			
		3.0	V-0	2	0	105	105	105			
		3.5	5VA	-	-	105	105	105			
RPP 1221-@++\$+ (f1)											
	WT, BK, TN, GY	1.5	V-2	4	0	115	115	115	0	-	0
	BN	1.5	V-2	4	0	115	115	115			
	WT, BK, TN, GY	3.0	V-2	3	0	115	115	115			
	BN	3.0	V-2	3	0	115	115	115			
RPP 1221-@++\$+(f2)											
	ALL	1.5	V-2	4	0	115	115	115	0	-	0
		3.0	V-2	3	0	115	115	115			
RPP 1275-@++\$+	ALL	0.75	V-0	3	0	115	115	115	0	5	0
		1.5	V-0	2	0	115	115	115			
		3.0	V-0	2	0	120	115	120			
RPP 1477EL-@++\$+	ALL	0.75	V-2	-	-	65	65	65	-	-	-
RPP 1729-@++\$+	ALL	0.81	V-0	3	0	115	105	115	0	5	0
		1.5	V-0	3	0	115	105	115			
		3.0	V-0	2	0	115	105	115			
RPP 2000-@++\$+(f1)	ALL	0.75	V-2	4	0	65	65	65	-	-	-
		1.5	V-2	3	0	65	65	65			
		3.0	V-2	2	0	65	65	65			
RPP 371ND-@++\$+	ALL	0.75	V-0	4	0	105	105	105	1	6	0
		1.5	V-0	3	0	105	105	105			
		2.0	V-0, 5VA	3	0	105	105	105			
		3.0	V-0, 5VA	2	0	105	105	105			
RPP 373-2A340(f1)	ALL	3.0	V-0	-	-	65	65	65	-	-	-
RPP 373-@++\$+	ALL	1.5	V-0, 5VB	-	-	65	65	65	-	-	-
		3.0	V-0, 5VA	-	-	65	65	65			
RPP 374 ND CS1	ALL	1.5	V-0	-	-	105	105	105	-	-	-
		3.0	V-0	-	-	105	105	105			
RPP 374ND CS1 5V-@++\$+(f1)											

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Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
	ALL	1.5	V-0	3	0	105	105	105	0	5	0
		1.8	V-0, 5VA	3	0	105	105	105			
		3.0	V-0, 5VA	2	0	105	105	105			
RPP 390 ND CS1	NC	1.5	V-2	0	0	105	115	115	-	-	0
	RD, WT, BK	1.5	V-0, 5VA	0	0	105	115	115			
	NC	3.0	V-0	0	0	105	115	115			
RPP 5002-@++\$+	NC, WT, GN	0.75	V-2	-	-	65	65	65	-	-	-
RPP 9200-@++\$+	ALL	0.75	V-2	-	-	65	65	65	-	-	-
RPP 958-@++\$+	NC	0.71	V-0	4	0	105	105	105	3	5	0
	BL, BK	1.5	V-0	3	0	105	105	105			
		3.0	V-0	3	0	105	105	105			
RPP 982-@++\$+	NC	0.75	-	4	0	65	65	65	2	7	0
		1.5	V-0	3	0	65	65	65			
		3.0	V-0	2	0	65	65	65			
RPP 985-@++\$+	NC	3.0	V-0	-	-	65	65	65	-	-	-
Polypropylene (PP), "POLYFLAM".											
RPP 1058M-@++\$+	ALL	0.75	V-2	4	0	105	105	105	0	5	0
		1.5	V-2	3	0	105	105	105			
		3.0	V-2	2	0	105	105	105			
RPP 1173-@++\$+	NC	0.81	V-1	3	0	85	85	88	-	6	0
		1.5	V-0	2	0	85	85	85			
		3.0	V-0	1	0	85	85	85			
RPP 1175-@++\$+	NC	0.81	V-2	3	0	105	105	105	-	6	0
		1.5	V-2	2	0	105	105	105			
		3.0	V-0	1	0	105	105	105			
RPP 7823E-@++\$+	ALL	1.5	V-0	-	-	65	65	65	-	-	-
Polypropylene (PP), "POLYFORT", furnished as pellets.											
110-1120-@++\$+	NC, BK	1.5	HB	-	-	65	65	65	-	-	-
110-1220-@++\$+, E-16482CG-@++\$+	GY	1.5	HB	-	-	65	65	65	-	-	-
	GY	1.5	HB	-	-	65	65	65	-	-	-
110-1520-@++\$+	BK	1.5	HB	-	-	65	65	65	-	-	-
E-10026-31(f1)		3.0	HB	-	-	65	65	65	-	-	-
E-10026-@++\$+(f1)	ALL	1.5	HB	-	-	65	65	65	-	-	-
		3.0	HB	-	-	65	65	65			
E-10269-@++\$+	NC	1.5	HB	-	-	65	65	65	-	-	-
E-10569-@++\$+	BK	1.5	HB	-	-	65	65	65	-	-	-
E-11104-@++\$+	BK	1.5	HB	-	-	65	65	65	-	-	-
E-12187-@++\$+	GY	1.5	HB	-	-	65	65	65	-	-	-
E-12434-2-@++\$+, E-14604-@++\$+	WT	1.5	HB	-	-	65	65	65	-	-	-
E-12690-@++\$+, E-14959-@++\$+	WT	1.5	HB	-	-	65	65	65	-	-	-
E-12982-@++\$+, E-14255W-@++\$+	WT, BK	1.5	HB	-	-	65	65	65	-	-	-
		3.0	HB	-	-	65	65	65			
E-13097-@++\$+(f1), E-13783-@++\$+(f1)	BK	2.7	HB	-	-	65	65	65	-	-	-
E-13399-@++\$+	BK	1.5	HB	-	-	65	65	65	-	-	-
E-13747-@++\$+	GY	1.5	HB	-	-	65	65	65	-	-	-
E-13783B-EM-@++\$+	BK	1.5	HB	-	-	65	65	65	-	-	-
E-13828-@++\$+	GY, BK	1.5	HB	1	0	65	65	65	-	-	0
		3.0	HB	0	0	65	65	65			
E-14294-@++\$+	BK	1.5	HB	-	-	65	65	65	-	-	-
E-14748-@++\$+	BK	1.5	HB	-	-	65	65	65	-	-	-
E-14773-@++\$+	NC, BK	1.5	HB	-	-	65	65	65	-	-	-
E-15631-@++\$+	NC	1.5	HB	-	-	65	65	65	-	-	-
E-16072-@++\$+(c)(d)(e)	NC, GY	1.5	HB	2	0	110	105	115	0	-	0
	NC	2.0	RP150	2	0	110	105	115			
	NC, GY	3.0	HB	2	0	110	110	120			
E-16117-@++\$+	BN	1.5	HB	-	-	65	65	65	-	-	-
		3.00	HB	-	-	65	65	65			
E-16269B-@++\$+	BK	1.5	HB	-	-	65	65	65	-	-	-
		3.0	HB	-	-	65	65	65			
E-16324-@++\$+	WT	1.5	HB	-	-	65	65	65	-	-	-
E-16332-@++\$+	WT	1.5	HB	-	-	65	65	65	-	-	-
E-16482XB-@++\$+	BK	1.5	HB	-	-	65	65	65	-	-	-
E-16614-@++\$+(f1)	GY	1.5	HB	-	-	65	65	65	-	-	-
		3.0	HB	-	-	65	65	65			
E-16715B-@++\$+	BK	1.5	HB	-	-	65	65	65	-	-	-
E-17347-@++\$+	NC	1.5	HB	-	-	65	65	65	-	-	-
E-17392-@++\$+	NC	1.5	HB	-	-	65	65	65	-	-	-
		-	-	-	-	-	-	-			
E-17392-@++\$+(f1)	BK	1.5	HB	-	-	65	65	65	-	-	-
		-	-	-	-	-	-	-			
FPP 1006-@++\$+	ALL	1.5	HB	-	-	65	65	65	-	-	-
FPP 1007-@++\$+	BK	0.75	HB	4	2	120	115	115	0	5	0
	ALL	1.5	HB	3	2	120	115	115			
		3.0	HB	2	2	120	120	120			
FPP 1080-@++\$+	NC, BK	1.5	HB	-	-	65	65	65	-	-	-
FPP 1182-@++\$+	ALL	1.5	HB	-	-	65	65	65	-	-	-
FPP 1200-@++\$+(f1)											
	NC, WT, GY, BK	1.5	HB	3	0	100	100	100	-	-	0
		3.0	HB	2	0	100	100	100			
FPP 1200-@++\$+(f2)	ALL	1.5	HB	3	0	100	100	100	-	-	0
		3.0	HB	2	0	100	100	100			
FPP 1236-@++\$+	ALL	1.5	HB	1	0	115	115	115	0		
		3.0	HB	0	0	115	115	115			



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Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
FPP 1237-@++\$+	NC, BK	1.5	HB	-	-	65	65	65	-	-	-
FPP 1239H-@++\$+	ALL	1.5	HB	1	0	65	65	65	0	5	0
		3.0	HB	0	0	65	65	65			
FPP 1245-@++\$+	ALL	1.5	HB	-	-	65	65	65	-	-	-
FPP 1254-@++\$+	NC	1.5	HB	-	-	65	65	65	-	-	-
FPP 1285-@++\$+	NC, BK	1.5	HB	-	-	65	65	65	-	-	-
FPP 1427-@++\$+	NC, BK	1.5	HB	-	-	65	65	65	-	-	-
FPP 1453-@++\$+	NC, AD	0.75	-	4	0	115	105	105	0	5	0
		1.5	HB	3	0	115	115	115			
		3.0	HB	2	2	115	115	115			
FPP 1477-@++\$+	NC, BK, AL	1.5	HB	-	-	105	100	100	-	-	-
FPP 1606-@++\$+	ALL	1.5	HB	3	0	100	100	100	0	6	0
		3.0	HB	2	0	100	100	100			
FPP 1696-@++\$+	ALL	1.5	HB	-	-	65	65	65	-	-	-
FPP 1828-@++\$+	BK	1.5	HB	-	-	65	65	65	-	-	-
FPP 2828-@++\$(a)(b)(c)(d)											
	ALL	1.5	HB	2	0	65	65	65	0	6	0
		3.0	HB	2	0	65	65	65			
FPP 2829-@++\$+	ALL	0.75	-	-	-	110	110	110	0	6	0
		1.5	HB	2	0	115	115	115			
		3.0	HB	2	0	120	120	120			
FPP 2830-@++\$(a)(b)(c)(d)											
	ALL	1.5	HB	2	0	65	65	65	0	6	0
		3.0	HB	2	0	65	65	65			
FPP 2838-@++\$+	NC	1.5	HB	3	0	65	65	65	0	5	0
		3.0	HB	2	0	65	65	65			
FPP 2871-@++\$+, FPP 2831-@++\$+, FPP 2872-@++\$+, FPP 2873-@++\$+											
	ALL	1.5	HB	2	0	65	65	65	0	6	0
		3.0	HB	2	0	65	65	65			
FPP 2874-@++\$+	ALL	1.5	HB	2	0	65	65	65	0	5	0
		3.0	HB	1	0	65	65	65			
FPP 2880-@++\$(a)(b)(c)(d)											
	ALL	1.5	HB	2	0	65	65	65	0	6	0
		3.0	HB	2	0	65	65	65			
FPP 2899-@++\$+	NC	1.5	HB	-	-	65	65	65	-	-	-
FPP 3707-@++\$+	ALL	1.5	HB	3	0	115	115	115	0	5	0
		3.0	HB	2	0	115	115	115			
FPP 3711-@++\$+	ALL	1.5	HB	-	-	105	100	100	-	-	-
		3.0	HB	-	-	105	100	100			
Polypropylene (PP), "Polyfort", furnished as pellets.											
FPP 3763U(f1)	ALL	1.5	HB	-	-	65	65	65	-	-	-
Polypropylene (PP), "POLYFORT", furnished as pellets.											
FPP 3799U-3120(f1)	BK	2.0	HB	-	-	65	65	65	-	-	-
FPP 3799U-3120(f2)	BK	1.5	HB	-	-	65	65	65	-	-	-
PP 1044-@++\$(h)(m)											
	NC	0.75	-	-	-	120	120	120	0	-	-
		1.5	HB	3	0	120	125	125			
		2.0	HB	3	0	120	125	125			
		3.0	HB	3	0	120	125	125			
PP 1102-@++\$+	NC	1.5	HB	-	-	65	65	65	-	-	-
PP 1212-@++\$+	NC, TN, RD	1.5	HB	-	-	65	65	65	-	-	-
PP 1255-@++\$+	NC	1.5	HB	-	-	65	65	65	-	-	-
Polypropylene (PP), "Polyfort", furnished as pellets.											
PP 1407H(f1)	ALL	1.5	HB	-	-	65	65	65	-	-	-
		3.0	HB	-	-	65	65	65			
Polypropylene (PP), "POLYFORT", furnished as pellets.											
PP 1467-@++\$+	ALL	1.5	HB	-	-	65	65	65	-	-	-
PP 2802-@++\$+, PP 2801-@++\$+											
	ALL	1.5	HB	2	0	65	65	65	0	6	-
		3.0	HB	2	0	65	65	65			
PP 2803-@++\$+, PP 2800-@++\$(a)(b)(c)(d)											
	ALL	0.75	-	-	-	120	115	115	0	6	-
		1.5	HB	3	0	120	120	120			
		3.0	HB	2	0	120	125	125			
PP 2804-@++\$+	ALL	1.5	HB	-	-	65	65	65	-	-	-
PP 2805-@++\$+	NC	1.5	HB	-	-	65	65	65	-	-	-
PP 2806-@++\$+, PP 2817-@++\$+											
	NC,	1.5	HB	3	0	65	65	65	0	6	0
		3.0	HB	2	0	65	65	65			
PP 2807-@++\$+	ALL	1.5	HB	-	-	65	65	65	-	-	-
		3.0	HB	-	-	65	65	65			
PP 2808-@++\$+, PP 2812-@++\$+, PP 2816-@++\$+											
	ALL	1.5	HB	3	0	65	65	65	0	6	0
		3.0	HB	2	0	65	65	65			
PP 2810-@++\$+	NC	1.5	HB	3	0	65	65	65	0	6	0
		3.0	HB	2	0	65	65	65			
PP 2818-@++\$+	ALL	1.5	HB	2	0	65	65	65	0	6	0
		3.0	HB	2	0	65	65	65			
PP 2824-@++\$+	NC,	1.5	HB	3	0	65	65	65	0	6	0
		3.0	HB	2	0	65	65	65			
PP 2896-@++\$+	ALL	1.5	HB	-	-	65	65	65	-	-	-
PP 2984 A-EHF-@++\$+											
	ALL	1.5	HB	-	-	65	65	65	-	-	-
PP 4006-@++\$+	ALL	1.5	HB	-	-	65	65	65	-	-	-
PP 4007-@++\$+	ALL	1.5	HB	3	0	65	65	65	-	-	-
		2.0	HB	2	0	65	65	65			
PP 4500-@++\$+	ALL	1.5	HB	-	-	65	65	65	-	-	-
PP 828-@++\$+	ALL	1.5	HB	3	-	65	65	65	-	-	-
RPP 2620-@++\$+	NC, WT	0.75	V-0	-	-	65	65	65	0	7	0
	RD, BK	0.75	V-2	-	-	65	65	65			
	ALL	1.5	V-0	3	0	115	115	115			



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Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Polypropylene (PP), "POLYFORT".											
FPP 3443U-@++\$+	ALL	1.5	HB	-	-	65	65	65	-	-	-
FPP 3707U-@++\$+	ALL	1.5	HB	3	0	115	115	115	0	5	0
		3.0	HB	2	0	115	115	115			
FPP 3772-@++\$+	ALL	1.5	HB	-	-	65	65	65	-	-	-
PP 3486-@++\$+	ALL	1.5	HB	-	-	65	65	65	-	-	-
Polypropylene (PP), "VOLOY", furnished as pellets.											
100-@++\$+	BK	1.5	V-0	-	-	65	65	65	-	-	-
110-@++\$+, E-14299-@++\$+											
	NC, BK	1.5	V-2	-	-	65	65	65	-	-	-
	WT	1.5	V-0	-	-	65	65	65			
	NC, WT, BK	3.0	V-0	-	-	65	65	65			
112-@++\$+	GY, BK	1.5	V-0	-	-	65	65	65	-	-	-
	NC, GY, BK	3.0	V-0	-	-	65	65	65			
143-@++\$+	NC	2.2	V-2	-	-	65	65	65	-	-	-
Polypropylene (PP), furnished as pellets.											
CB-1032-@++\$+(h)(i)											
	ALL	1.5	HB	4	3	120	120	120	0	-	0
		1.6	HB	3	0	120	125	125			
		2.0	HB	3	0	120	125	125			
		3.0	HB	2	0	120	125	125			
FPP 3130 HU	ALL	1.5	HB	-	-	65	65	65	-	-	-
INVISION GX 5055G6-2A544 GREY											
	GY	1.5	HB	-	-	65	65	65	-	-	-
PP 3479-01	NC	1.5	HB	-	-	65	65	65	-	-	-
		3.0	HB	-	-	65	65	65			
PP 828	NC	1.0	HB	-	-	65	65	65	-	-	-
		3.0	HB	-	-	65	65	65			
Polystyrene (PS), "POLYFLAM", furnished as pellets.											
E-12082-@++\$+	NC	1.5	V-1	-	-	50	50	50	-	-	-
		3.0	V-0	-	-	50	50	50			
E-15016-@++\$+	BN	1.5	V-0	-	-	50	50	50	-	-	-
	BK	1.9	V-0	-	-	50	50	50			
RMS 415-@++\$+	NC	1.5	V-1	0	0	50	50	50	4	5	1
		3.0	V-1	0	0	50	50	50			
RMS 424-@++\$+	NC	1.5	V-1	3	0	50	50	50	3	6	1
		3.0	V-0	2	0	50	50	50			
Polyvinylchloride (PVC), "POLYFLAM", furnished as pellets.											
832-1000-@++\$+	ALL	1.9	V-0	-	-	50	50	50	-	-	-
	BK	2.5	5VA	-	-	50	50	50			
832-1000BG-@++\$+	BG	1.5	V-0	-	-	50	50	50	-	-	-
E-16360-@++\$+(f2)(b)											
	ALL	0.99	V-0	0	0	50	50	50	4	6	0
		1.5	V-0, RP50	0	0	50	50	50			
		1.7	5VB	0	0	50	50	50			
		2.0	V-0	0	0	95	85	95			
		2.9	5VA	0	0	95	85	95			
Polyvinylchloride (PVC), flexible, "POLYVIN", furnished as pellets.											
7843-B-05-@++\$+	NC	3.0	V-0	-	-	50	-	50	-	-	2
Polyvinylchloride (PVC), "POLYVIN", furnished as pellets.											
9032-@++\$+	GY	1.6	V-0	-	-	50	50	50	-	-	-
Styrene Butadiene (SB), "Merchant", furnished as pellets.											
Merchant PS 3010-01											
	NC	1.5	HB	-	-	50	50	50	-	-	-
Thermoplastic Elastomer (TPE), furnished as pellets.											
UX5055T2UL	ALL	1.5	HB	-	-	50	50	50	-	-	-
"POLYFLAM", furnished as pellets.											
RPP 390 ND CS1	NC	1.5	V-2	0	0	105	115	115	-	-	-
	RD, WT, BK	1.5	V-0, 5VA	0	0	105	115	115			

\$ - Represents a two to five digit number 00-99999 incl., or none.

(a) - Subjected to detergents, bleach and solutions typically used in fluid containing parts of laundry equipment.

(b) - Subjected to simulated environmental abrasion tests per UL 560.

(c) - Subjected to dishwasher detergents and solutions typically used in fluid containing parts of dishwashing equipment.

(d) - ASTM E-162 Radiant Panel; Flame spread index less than 170: Sustained flaming 15in: Drilling; Yes (flaming).

(f1) - Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.

(f2) - Subjected to one or more of the following tests: Ultraviolet Light, Water Exposure or Immersion in accordance with UL 746C, where the acceptability for outdoor use is to be determined by UL.

(h) - Natural color subjected to detergents, bleach and solutions typically used in fluid containing parts of laundry equipment.

(i) - Natural color subjected to environmental abrasion tests per UL 560. For use in Listed equipment that permits materials having flame spread (UL723) of 200 w / evidence of continued combustion.

(m) - Natural color subjected to simulated environmental abrasion tests per UL 560.

(r1) - Virgin and single pass (one blending) regrind up to 70% by weight inclusive have the same material properties with regard to generic RTI's, flammability, HWI, CTI, HVTR, HDT, D495, Izod Impact and Tensile Strength to the minimum thickness of 0.75 mm.

+ - Represents one letter A-Z incl. or no letter

@ - Represents a single digit number 0-9 incl., or none.

NOTE - All designations may be followed by numerical suffixes indicating color

Marking: Company name or trademark **POLYMAN®**, **POLYFLAM®**, **POLYVIN®**, **POLYFORT®**, **SCHULAMID®** and material designation on container, wrapper or finished part.

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PLASTICS (QMFZ2)

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Polypropylene (PP), is a polypropylene material, "POLYFLAM", furnished as pellets.											
RPP 1021(f2)	NC	0.75	V-2	3	0	105	105	105	0	5	0
	ALL	1.5	V-2	3	0	105	105	105			
		3.0	V-2	2	0	105	105	105			
Polypropylene (PP), "POLYFLAM", furnished as pellets.											
RIPP 371 ND	ALL	1.5	V-0	-	-	65	65	65	-	-	-
RIPP 372 ND CS1	ALL	1.6	V-0	-	-	65	65	65	-	-	-
		-	-	-	-	-	-	-			
		-	-	-	-	-	-	-			
RIPP 390 ND	ALL	1.5	V-0	-	-	65	65	65	-	-	-
RIPP 510 D(f1)	ALL	0.75	V-2	-	-	65	65	65	0	6	0
		1.5	V-2	3	0	65	65	65			
		3.0	V-2	2	0	65	65	65			
RPP 371 NDM-CS1	ALL	1.5	V-0	-	-	65	65	65	-	-	-
RPP 374 ND CS1	ALL	1.5	V-0	-	-	105	105	105	-	-	-
		3.0	V-0	-	-	105	105	105			
RPP 500 D	ALL	0.75	V-2	-	-	65	65	65	0	6	0
		1.5	V-2	3	0	65	65	65			
		3.0	V-2	2	0	65	65	65			
RPP371ND	NC	0.75	V-0	4	0	105	105	105	1	6	0
	ALL	1.5	V-0	3	0	105	105	105			
		3.0	V-0	2	0	105	105	105			
RPP371NDCS1	ALL	1.5	V-0	-	-	65	65	65	-	-	-
Polystyrene (PS), "POLYBATCH", furnished as pellets.											
MSDR101/20	ALL	1.5	V-2	-	-	50	50	50	-	-	-
Polystyrene (PS), "POLYFLAM", furnished as pellets.											
HSF-20	ALL	1.5	V-2	-	-	50	50	50	-	-	-
		3.0	V-0	-	-	50	50	50			
		-	-	-	-	-	-	-			
HSF-20(a) Foamed	NC	4.1	V-0	-	-	-	-	-	-	-	-
		5.0	5VA	-	-	-	-	-			
	ALL	6.3	V-0	-	-	-	-	-			
HSF-20B	ALL	1.5	V-0	-	-	50	50	50	-	-	-
		-	-	-	-	-	-	-			
		-	-	-	-	-	-	-			
HSF13N	ALL	1.6	V-0	-	-	50	50	50	-	-	-
		-	-	-	-	-	-	-			
		-	-	-	-	-	-	-			
SDR101	ALL	1.5	V-2	-	-	50	50	50	-	-	-
		-	-	-	-	-	-	-			
		-	-	-	-	-	-	-			

(a) - Density range: 0.79-1.06 g/cc at 4.0-5.0mm; 0.26-0.35 g/cc at 6mm.

(f1) - Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.
(f2) - Subjected to one or more of the following tests: Ultraviolet Light, Water Exposure or Immersion in accordance with UL 746C, where the acceptability for outdoor use is to be determined by UL.

Marking: Company name and material designation on container, wrapper or finished part.

A SCHULMAN PLASTICS (DONGGUAN) LTD

E344659

EASTERN INDUSTRIAL PARK QIAOXIN RD QIAOTOU TOWN,
DONGGUAN, GUANGDONG 523520 CHINA

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Acrylonitrile Butadiene Styrene (ABS), "POLYMAN (ABS)", furnished as pellets.											
LP 320	ALL	0.8	HB	3	1	90	80	95	1	1	0
		1.5	HB	3	1	90	80	95			
		3.0	HB	3	0	90	80	95			
Acrylonitrile Butadiene Styrene/Polyamide (ABS/PA), "SCHULABLEND (ABS/PA)", furnished as pellets.											
M/MK	ALL	1.5	HB	4	0	60	60	60	-	-	-
M/MK NC800	ALL	1.5	HB	3	0	60	60	60	-	-	-
		3.0	HB	2	0	60	60	60			
Polyamide 6 (PA6), "SCHULAMID", furnished as pellets.											
6 GF 25 H	ALL	0.75	HB	-	-	125	115	130	-	-	-
		1.5	HB	-	-	125	120	130			
		3.0	HB	-	-	125	125	130			
6 GF 30	ALL	1.5	HB	3	0	65	65	65	0	-	-
		3.0	HB	0	0	65	65	65			
6 GF 30 H	ALL	0.75	HB	-	-	125	115	130	-	-	-
		1.5	HB	-	-	125	120	130			
		3.0	HB	-	-	125	125	130			
6 GF 35	ALL	1.5	HB	2	0	65	65	65	-	-	1
		3.0	HB	0	0	65	65	65			
6 MV 14	ALL	1.5	V-2	4	0	65	65	65	0	-	-
		3.0	V-2	3	0	65	65	65			
6 MV 14 FR 4 K1681	ALL	0.38	V-2	4	0	130	75	100	-	-	2
		0.75	V-2	4	0	130	90	110			
		1.5	V-2	2	0	130	100	120			
		3.0	V-2	0	0	130	100	120			
Polyamide 66 (PA66), "SCHULAMID", furnished as pellets.											
66 GF 25 H	ALL	0.75	HB	-	-	120	100	110	-	-	-
		1.5	HB	-	-	120	105	120			
		3.0	HB	-	-	120	115	130			
66 GF 35 H	ALL	0.75	HB	-	-	120	100	110	-	-	-
		1.5	HB	0	0	120	105	120			
		3.0	HB	0	0	120	115	130			
66 MV 3	NC	0.75	V-2	-	-	130	65	65	-	-	-
	ALL	1.5	V-2	4	0	130	65	65			



Documents
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Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I		H V T R	D 4 9 5	C T I
							Imp	Mech Str			
66 MW 30 FR 4	ALL	0.75	V-2	4	0	130	65	65	-	-	2
		1.5	V-0	0	0	65	65	65			
		3.0	V-0	0	0	65	65	65			
66 SK 1000	ALL	1.5	HB	4	0	65	65	65	0	-	-
		3.0	HB	2	0	65	65	65			
Polybutylene Terephthalate (PBT), "SCHULADUR", furnished as pellets.											
A BS 40 HI	ALL	1.5	HB	3	3	75	75	75	-	-	-
		3.0	HB	3	2	75	75	75			
Polybutylene/Polyethylene Terephthalate (PBT/PET), "SCHULADUR", furnished as pellets.											
PCR GF 30	ALL	1.5	HB	-	-	75	75	75	-	-	-
Polycarbonate (PC), "POLYMAN (PC)", furnished as pellets.											
XP 31 R	ALL	1.5	HB	4	0	80	80	80	-	-	-
		3.0	HB	2	0	80	80	80			
Polypropylene (PP), "POLYFLAM", furnished as pellets.											
RPP 490 CS1	ALL	1.5	V-0	-	-	65	65	65	-	-	-
Polypropylene (PP), "POLYFORT", furnished as pellets.											
FPP 20 T	ALL	1.5	HB	2	1	65	65	65	-	-	-
		3.0	HB	2	0	65	65	65			

NOTE - All designations may be followed by numerical suffixes indicating color

Marking: Company name and material designation on container, wrapper or finished part.

AAVID THERMALLOY L L C**E137859**

SUITE 200 70 COMMERCIAL ST, CONCORD NH 03301

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I		H V T R	D 4 9 5	C T I
							Imp	Mech Str			
Silicone (SI), sheet insulation, furnished as sheets, finished parts.											
1888, 1898	GY	0.17	V-0	4	0	150	150	150	0	4	-
Silicone (SI), furnished as sheets, finished parts.											
1884, 1894	RD	0.18	V-0	4	3	150	150	150	-	-	-
1885, 1895	TN	0.13	VTM-0	2	1	150	150	150	-	-	-
1886, 1896	GY	0.13	VTM-0	4	2	150	150	150	-	-	-
1887, 1897	RD	0.23	V-0	4	3	150	150	150	0	0	0
1889, 1899	GY	0.17	V-0	-	-	150	150	150	-	-	-
		0.25	V-1	-	-	150	150	150			

Marking: Company name and material designation on container, wrapper or finished part.

ABB AB CEWE-CONTROL**E76108**

MOTORGRAND 20 SE-721 61, VASTERAS SWEDEN

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I		H V T R	D 4 9 5	C T I
							Imp	Mech Str			
Sheet Molding Compound "Polyester" (SMC), furnished as sheets.											
XFRHNS 15	NC	1.9	V-0	0	0	130	130	130	-	-	0
		3.0	V-0	0	0	130	130	130			

Marking: Company name or trademark **ABB** and material designation on container, wrapper or finished part.**ACC SILICONES LTD****E334038**SHOWGROUND RD, AMBER HOUSE BRIDGWATER,
SOMERSET, ENGLAND TA6 6AT UNITED KINGDOM

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I		H V T R	D 4 9 5	C T I
							Imp	Mech Str			
Silicone (SI), furnished as One Liquid Component.											
AS1740	CL	1.5	HB	-	-	105	105	105	-	-	-
Silicone (SI), furnished as sheets.											
Silcoset 153	NC	1.5	HB	-	-	105	-	105	-	-	-
		3.0	HB	-	-	105	-	105			
Silicone Molding Resin (SIR), furnished as two liquid components.											
SE2010	BK	3.0	-	2	2	150	150	150	0	5	4
		6.0-6.6	V-0	-	-	150	150	150			
SE2010AI	BK	0.3-0.33 (A)	V-1	-	4	150	150	150	-	-	

(A) - Tested with polymer adhered to 0.02 mm aluminum substrate.

Marking: Company name and material designation on container, wrapper or finished part.

ACCUMETRIC L L C**E146545**

350 RING RD, ELIZABETHTOWN KY 42701

Material Dsg	Color	Min.	Flame Class	H	H	Elec	R T I		H	D	C	
		Thk		W	A		Imp	Mech	V	T		I
		mm		I	I		Str	R	5	I		
Silicone "Room Temperature Vulcanizing" (RTV), sealant, furnished as liquid.												
BOSS 100 percent Silicone Sealant+, BOSS RTV Silicone Sealant+												
	ALL	1.9	-	-	-	140	-	140				
BOSS 312 RTV Industrial Silicone+												



2012 PLASTICS RECOGNIZED COMPONENT DIRECTORY

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PLASTICS (QMFZ2)

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
BOSS 315 Silicone Sealant+	ALL	1.9	-	-	-	140	-	140			
BOSS 326 Hi-Temp Red Silicone Sealant+	ALL	1.9	-	-	-	140	-	140			
BOSS 338 RTV	ALL	1.5	-	-	-	105	-	105			
BOSS 399	ALL	1.47	-	-	-	105	-	105			
BOSS 839 Silicone Sealant+	ALL	1.9	-	-	-	140	-	140			
BOSS Hi-Temp Blue Gasket Maker+	ALL	1.9	-	-	-	140	-	140			

+ - Except a Mechanical without Impact R.T.I. of 150C where elongation is not essential.
Marking: Company name and material designation on container, wrapper or finished part.

ACHILLES CORP

E74899

22 DAIKYO-CHO SHINJUKU-KU, TOKYO 160-8885 JAPAN

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Acrylic, "Achilles", furnished as sheets.											
NH-018-010A	WT	1.0 ONLY	V-1	-	-	50	50	50	-	-	-
Acrylic resin, "Achilles THERMION", furnished as sheets.											
HN-017	BK	1.0-1.1	V-0	-	-	50	50	50	-	-	-
HN-020	BK	1.0 - 1.1	V-0	-	-	50	50	50	-	-	-
Acrylic resin, "Achilles THERMION".											
HN-010	WT	0.3	VTM-0	-	-	50	50	50	-	-	-
		1.0	V-0	-	-	50	50	50			
		3.0	V-0	-	-	50	50	50			
Acrylic resin, "Achilles Thermion Giganon", furnished as sheets.											
GN-010	BK	1.0-1.1	V-2	-	-	50	50	50	-	-	-
Polyurethane (PUR), flexible foam, "Achilles", furnished as sheets, blocks.											
NL (d)	GY	3.0	HF-1	-	-	-	-	-	-	-	-
NP (d)	GY	3.0	HF-1	-	-	-	-	-	-	-	-
NU (d)	GY	3.0	HF-1	-	-	-	-	-	-	-	-
Polyurethane (PUR), rigid foam, "Achilles", furnished as molded parts.											
PUR-ULFR-1+ (a)	NC	6.0	V-0	-	-	50	50	50	-	-	-
PUR-ULFR-2 (b)	ALL	3.0	V-0	-	-	50	50	50	-	-	-
		10.0	V-0	-	-	50	50	50			
PUR-ULFR-3 (b)	ALL	3.0	V-0	-	-	50	50	50	-	-	-
		10.1	V-0	-	-	50	50	50			
PUR-ULFR-5(g)(h)	ALL	3.0	V-0	-	-	50	50	50	-	-	-
		10.0	V-0	-	-	50	50	50			
Polyurethane (PUR), furnished as blocks.											
NH(i)	GY	3.0	HF-1	-	-	50	50	50	-	-	-
		6.0	HF-1	-	-	50	50	50			
		10.0 - 11.0	HF-1	-	-	50	50	50			

(a) - Density range: 0.8-1.0 g/cc.

(b) - Density range 0.8-1.0 gm/cc.

(d) - Density range 0.02-0.035 gm/cc.

(g) - Density range 0.9-1.1 g/cc.

(h) - Recognized for all colors with respect to the top layer only. The rest of the material is in natural color.

(i) - Density range: 0.025-0.041 g/cc

+ - May be painted with acrylic polyol-polyurethane paint in any color.

Marking: Company name or trademark **Achilles**, **アキレスエロン**,  and material designation on container, wrapper or finished part.

ACHILLES USA INC

E310941

1407 80TH ST SW, EVERETT WA 98203

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Polyvinylchloride (PVC), furnished as sheets.											
EHO	OR	0.15	VTM-O	-	-	50	50	50			

Marking: Company name and material designation on container, wrapper or finished part.

ACLO COMPOUNDERS, BUSINESS UNIT OF MATRIXX

E99379

GROUP INC

15000 HWY 41 N, EVANSVILLE IN 47725

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Acrylonitrile Butadiene Styrene (ABS), furnished as pellets.											
ABS801L, A-08803	GY	1.5	HB	-	-	60	60	60			
ABS801L, A-11854	BK	1.5	HB	-	-	60	60	60			
ABS860V0UVL	ALL	3.0	V-0, 5VA	-	-	60	60	60			
Polycarbonate (PC), furnished as pellets.											



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2012 PLASTICS RECOGNIZED COMPONENT DIRECTORY

PLASTICS (QMFZ2)

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Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
POL050G10HIV0L	ALL	1.5	V-0	-	-	80	80	80			
Polyethylene (PE), furnished as pellets.											
LD0168V2CSL	ALL	1.5	V-2	-	-	50	50	50			
Polyethylene/Polypropylene (PE/PP), furnished as pellets.											
CP0436C20L1	BK	1.5	HB	-	-	50	50	50			
CP0436T30L1	BK	1.5	HB	-	-	50	50	50			
Polypropylene (PP), 30% Glass Filled, furnished as pellets.											
CP0437G30CL	ALL	1.5	HB	-	-	65	65	65			
Polypropylene (PP), filled, furnished as pellets.											
HPO 338 C20 SA	NC	1.5	HB	-	-	65	65	65			
		3.0	HB	-	-	65	65	65			
Polypropylene (PP), impact modified, furnished as pellets.											
CP246xV2CSL	ALL	1.5	V-2	3	0	65	65	65			0
		3.0	V-2	3	0	65	65	65			
Polypropylene (PP), mineral reinforced, furnished as pellets.											
HP0338C40	ALL	1.5	HB	-	-	65	65	65			
Polypropylene (PP), furnished as pellets.											
CP0439T30UVASL	NC	1.5	HB	-	-	65	65	65			
CP0467V0CSL	ALL	3.0	V-0	-	-	65	65	65			
CP1467V2CSL	ALL	1.5	V-2	-	-	110	110	110			
CPP 403 D4	NC	1.5	HB	-	-	65	65	65			
		3.0	HB	-	-	65	65	65			
CPP403D1	ALL	1.5	HB	-	-	65	65	65			
HP0315L	ALL	1.5	HB	-	-	65	110	110			
HP0315L, white A6802	WT	1.5	HB	-	-	65	65	65			
HP0336G20C002L	GY	1.5	HB	-	-	65	65	65			
HP0336G30CL	BK	1.5	HB	-	-	65	65	65			
HP0362V2CSL	WT	0.75	V-2	-	-	65	65	65			
	ALL	1.5	V-2	-	-	100	100	100			
HP0365V0CSL	ALL	1.5	V-0	-	-	65	65	65			
HP0369V2CSL	ALL	0.74	V-2	-	-	65	65	65			
		1.5	V-2	-	-	100	100	100			
HP036xV2CSL	ALL	0.75	V-2	-	-	65	65	65			
		1.5	V-2	-	-	100	100	100			
HP036xV2UVCSL	ALL	1.47	V-2	-	-	65	65	65			
HP136xV2CSL	NC	0.75	V-2	4	0	65	65	65		5	
	ALL	1.5	V-2	3	0	110	110	110			
		3.0	V-2	2	0	110	110	110			
HPN469V2CSL	ALL	1.5	V-2	-	-	65	65	65			
HPP305L	ALL	1.5	HB	-	-	65	65	65			
Styrene Acrylonitrile (SAN), glass reinforced, furnished as pellets.											
SAN960G35V0L	BK	1.8	V-0	-	-	50	50	50			

x - May be replaced with a single digit, 0 through 9, representing melt flow

Marking: Company name and material designation on container, wrapper or finished part.

ACTION RUBBER CO INC

601 FAME RD, DAYTON OH 45449

E307162

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Neoprene, furnished as finished parts.											
ARC51BFRF1	BK	1.5	HB	-	-	50	50	50			

Marking: Company name and material designation on container, wrapper or finished part.

ACUMEN ENGINEERING PTE LTD

211 WOODLANDS AVE 9, #02-89/90 WOODLANDS SPECTRUM
II, SINGAPORE 738960 SINGAPORE

E340481

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Acetal "Polyoxymethylene" (POM), furnished as pellets.											
F20-03	ALL	1.5-1.65	HB	-	-	50	50	50	-	-	-
Polycarbonate (PC), furnished as pellets.											
#3000R	ALL	1.5-1.65	V-2	-	-	80	80	80	-	-	-
Styrene Acrylonitrile (SAN), furnished as pellets.											
SAN@	ALL	1.5-1.65	HB	-	-	50	50	50	-	-	-

Marking: Company name and material designation on container, wrapper or finished part.

AD MAJORIS SAS

21 RUE SAINT JEAN 69550, CUBLIZE FRANCE

2012 PLASTICS RECOGNIZED COMPONENT DIRECTORY

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PLASTICS (QMFZ2)

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Polypropylene (PP), glass reinforced, "MAJORIS", furnished as pellets.											
G300,G307	ALL	1.5	HB	-	-	65	65	65	-	-	-
G400	ALL	1.5	HB	-	-	65	65	65	-	-	-
Polypropylene (PP), furnished as pellets.											
BT372	ALL	1.4-1.6	HB	-	-	65	65	65	-	-	-
DG300	ALL	1.5	HB	-	-	65	65	65	-	-	-
		1.8	HB	-	-	65	65	65			
		3.0	HB	-	-	65	65	65			
FFR037	ALL	1.5	V-2	3	0	65	65	65	-	-	-
		3.0	V-2	2	0	65	65	65			

Marking: Company name or tradename "MAJORIS" and material designation on container, wrapper or finished part.

ADDIPLAST

ZONE INDUSTRIAL DE CAMPINE 43620, ST PAL DE
MONS FRANCE

E175195

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Polyamide 66 (PA66), furnished as pellets.											
Addinyl A2 E	ALL	0.75	V-2	-	-	65	65	65	-	-	-
Polypropylene (PP), furnished as pellets.											
H290M20F	ALL	1.5	V-0	-	-	65	65	65	-	-	-
H390M20F	ALL	1.5	V-0	-	-	65	65	65	-	-	-
H490M20F	ALL	1.5	V-0	-	-	65	65	65	-	-	-
H490S	ALL	1.5	V-2	-	-	65	65	65	-	-	-
J 490 M20 FR	ALL	1.6	V-0, 5VB	-	-	65	65	65	-	-	-
		3.0	V-0, 5VA	-	-	65	65	65			
J290M20F	ALL	1.5	V-0	-	-	65	65	65	-	-	-
J390M20F	ALL	1.5	V-0	-	-	65	65	65	-	-	-
J490M20F	ALL	1.5	V-0	-	-	65	65	65	-	-	-
J490S	ALL	1.5	V-2	-	-	65	65	65	-	-	-

Marking: Company name and material designation on container, wrapper or finished part.

ADEKA PALMAROLE SAS

ESPACE 103 103 RUE DE STRASBOURG 68300, SAINT
LOUIS FRANCE

E174209

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Polybutylene Terephthalate (PBT), "Orgater", furnished as pellets.											
MT-7410	ALL	0.75	V-0	-	-	75	75	75	-	-	-
MT-7420	NC	0.75	V-2	-	-	75	75	75	-	-	-
		3.0	V-0	-	-	75	75	75			
MT-7430	NC	0.75	V-2	-	-	75	75	75	-	-	-
		3.0	V-0	-	-	75	75	75			
T7401	ALL	0.81	V-0	-	-	75	75	75	-	-	-

Marking: Company name and material designation on container, wrapper or finished part.

ADELL PLASTICS INC

4530 ANNAPOLIS RD, BALTIMORE MD 21227

E44974

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Polyamide 6 (PA6), furnished as pellets.											
BH-18+	ALL	0.71	HB	4	0	105	65	65	1	6	1
		1.5	HB	3	0	115	65	115			
		3.0	HB	3	0	115	65	115			
BI-30-#	ALL	1.5	HB	-	-	65	65	65	-	-	-
BK-10-BK#0353	BK	1.5	HB	-	-	65	65	65	-	-	-
BR-37-BK, BE-37-BK, BW-37-BK											
	BK	1.5	HB	-	-	65	65	65	-	-	-
BS-10+	ALL	1.5	V-2	-	-	65	65	65	-	-	-
BS-10-N	NC	0.64	V-2	-	-	65	65	65	0	6	1
		1.5	V-2	4	0	130	65	65			
		4.4	V-2	3	0	130	65	65			
		6.0	V-2	3	0	130	65	65			
BT-73-#	ALL	1.5	HB	-	-	65	65	65	-	-	-
BW-77-#	ALL	1.5	HB	-	-	65	65	65	-	-	-
Polyamide 66 (PA66), furnished as pellets.											
661	WT	0.75	V-2	-	-	65	65	65	-	-	-
AE-37	ALL	0.91	HB	3	0	115	95	115	2	6	0
		1.5	HB	0	0	125	105	125			
		3.0	HB	0	0	130	105	130			
AF-10-660+	ALL	1.5	V-0	4	0	65	65	65	1	6	-
		3.0	V-0	4	0	65	65	65			
		6.0	V-0	4	0	65	65	65			
AF-10-667	NC	0.71	V-0	3	2	130	75	120	2	7	4
		1.5	V-0	2	2	130	85	130			
		3.0	V-0	2	1	130	85	130			



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2012 PLASTICS RECOGNIZED COMPONENT DIRECTORY

PLASTICS (QMFZ2)

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Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
AF-10-667A	NC	0.71	V-0	3	0	130	75	120	3	7	4
	BK	1.1	V-0	2	0	130	75	120			
		1.5	V-0	2	0	130	80	130			
		3.0	V-0	2	0	130	80	130			
AF-10-667B	NC, WT	0.71	V-0	2	2	130	75	120	1	7	4
		1.5	V-0	1	2	130	80	130			
		3.0	V-0	0	1	130	80	130			
AF-10-669-N	NC	0.81	V-0	-	-	65	65	65	-	-	-
AG-16-662+	ALL	0.71	V-1	1	1	65	65	65	3	7	3
		1.5	V-0	0	1	65	65	65			
		3.0	V-0	0	1	65	65	65			
AH-18+	ALL	0.71	HB	4	0	105	65	65	0	6	0
		1.5	HB	3	0	115	65	115			
		3.0	HB	2	0	115	65	115			
AI-10-N	NC	1.5	HB	4	0	65	65	65	1	6	0
		3.0	HB	4	0	65	65	65			
		6.0	HB	4	0	65	65	65			
AM-10+, AS-10-#, AS-10-#L	ALL	0.70	V-2	4	0	105	65	65	1	5	0
		1.5	V-2	3	0	105	65	65			
		3.0	V-2	2	0	105	70	70			
AR-17, AW-17	NC, WT	0.71	HB	3	0	105	65	65	1	6	1
	ALL	1.3	HB	3	0	105	65	65			
		1.5	HB	4	0	105	65	65			
		3.0	HB	4	0	105	80	80			
AR-17V3-BK	BK	1.5	HB	-	-	65	65	65	-	-	-
AR-37	ALL	0.91	HB	3	0	115	95	115	2	6	0
		1.5	HB	0	0	125	105	125			
		3.0	HB	0	0	130	105	130			
AR-38-BK	BK	1.5	HB	-	-	65	65	65	-	-	-
AS-10-SW	WT	0.70	V-2	4	0	105	65	65	1	5	0
		1.5	V-2	3	0	105	65	65			
		3.0	V-2	2	0	105	80	80			
AS-30	ALL	1.5	V-2	-	-	65	65	65	-	-	-
AS-30-BK#565711	BK	1.5	HB	-	-	65	65	65	-	-	-
AT-16-N	NC	1.5	HB	4	0	65	65	65	0	6	0
		3.0	HB	3	0	65	65	65			
		6.0	HB	3	0	65	65	65			
AW-37	ALL	0.91	HB	3	0	115	95	115	2	6	0
		1.5	HB	0	0	125	105	125			
		3.0	HB	0	0	130	105	130			
Polypropylene (PP), flame retardant, furnished as pellets.											
RF-32A10-1	ALL	1.7	V-2	-	-	65	65	65	-	-	-
		3.0	V-2	-	-	65	65	65			
Polypropylene (PP), mineral and glass reinforced, furnished as pellets.											
EL-37-BK	BK	1.5	HB	-	-	65	65	65	-	-	-
		3.0	HB	-	-	65	65	65			
Polypropylene (PP), furnished as pellets.											
EF-30	ALL	1.5	V-2	-	-	65	65	65	-	-	-
		3.0	V-2	-	-	65	65	65			
RF-10	ALL	1.8	V-2	-	-	65	65	65	-	-	-
		3.1	V-2	-	-	65	65	65			
RF-30	ALL	1.5	V-2	-	-	65	65	65	-	-	-
		3.0	V-2	-	-	65	65	65			

- Represents a one or two letter suffix code denoting color.

+ - May be followed by a one or two digit letter code denoting color.

Marking: Company name and material designation on container, wrapper or finished part.

AFAST CAMBRIDGE INC

2670 PAULUS ST, ST LAURENT, QC H4S 1G1 CANADA

E187181

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Silicone (SI), furnished as one liquid component.											
Adseal 4560	NC	1.2	HB	-	-	105	105	105			
Adseal 4560V	NC	1.5	HB	-	-	105	105	105			

Marking: Company name and material designation on container, wrapper or finished part.

ADVANCED COMPOSITES

1062 4TH AVE, SIDNEY OH 45365

E115551

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Polypropylene (PP), furnished as pellets.											
CCT-170W	BK	1.5	HB	-	-	65	65	65			
CCT-774	ALL	1.5	HB	-	-	65	65	65			
CCT-774-A	ALL	1.5	HB	-	-	65	65	65			
CCT-BJHH-US	ALL	1.5	V-2	-	-	65	65	65			
CCT-HW10	ALL	1.5	HB	-	-	65	65	65			
CCT-HW10-A	BY	1.5	HB	-	-	65	65	65			
CCT-J3H3000	ALL	1.5	HB	-	-	65	65	65			
CCT-SFR-60	ALL	1.5	HB	-	-	65	65	65			

Marking: Company name and material designation on container, wrapper or finished part.



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PLASTICS (QMFZ2)

ADVANCED POLYMER ALLOYS

E115006

400-A MAPLE RD, CARPENTERSVILLE IL 60110

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Thermoplastic Elastomer (TPE), "ALCRYN", furnished as pellets.											
2060BK	BK	0.88	HB	4	0	50	-	50	1	6	0
		1.5	HB	2	0	50	-	50			
		3.0	HB	2	0	50	-	50			
2060NC	NC	2.8	HB	-	-	50	-	50	-	-	-
2070BK	BK	1.5	HB	1	0	50	-	50	2	7	-
		3.0	HB	0	0	50	-	50			
2070NC	NC	1.5	HB	3	0	50	-	50	1	6	0
		3.0	HB	0	0	50	-	50			
2080BK	BK	1.5	HB	3	0	50	-	50	2	7	4
		3.0	HB	1	0	50	-	50			
2080NC	NC	2.9	HB	-	-	50	-	50	-	-	-
2160BK	BK	1.5	HB	-	-	50	-	50	-	-	-
		3.0	HB	-	-	50	-	50			
2160NC	NC	1.5	HB	-	-	50	-	50	-	-	-
		3.0	HB	-	-	50	-	50			
4070BK	BK	1.5	HB	-	-	50	50	50	-	-	-
		3.0	HB	-	-	50	50	50			
4070NC	NC	1.5	HB	-	-	50	-	50	-	-	-
		3.0	HB	-	-	50	-	50			
5085BK	BK	1.5	HB	-	-	50	-	50	-	-	-
		3.0	HB	-	-	50	-	50			

Marking: Company name or trademark  and material designation on container, wrapper or finished part.

ADVANCED URETHANE TECHNOLOGIES INC

E168909

122 PARKER ST, NEWBURYPORT MA 01950

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Polyurethane (PUR), foamed / expanded, furnished as finished parts.											
3910 (a)	BK, BL	7.8	HF-1	-	-	50	50	50			

(a) - Density range 0.026 - 0.031 g/cc

Marking: Company name and material designation on container, wrapper or finished part.

AEV LTD

E174454

MARION ST, BIRKENHEAD, MERSEYSIDE CH41 6LT UNITED KINGDOM

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Epoxy Casting Compound (EP - Casting), filled, flame retardant, "ULTIFIL", furnished as two liquid components.											
2001/810NL	ALL	3.0	V-0	-	-	90	90	90	-	-	-
Epoxy Casting Compound (EP - Casting), "ULTIFIL", furnished as two liquid components.											
2001/810STB	BK	3.0	V-0	-	-	90	90	90	-	-	-
2004TCB	BK	3.0	HB	-	-	90	90	90	-	-	-
2114TC#	ALL	3.0	HB	-	-	90	90	90	-	-	-
Polyurethane (PUR), "ULTIFIL", furnished as two liquid components.											
3000/041#	BK	5.0	HB	-	-	50	50	115	-	-	-
3000-050N (a)	ALL	3.0	V-0	-	-	50	50	50	-	-	-
3000/041	BK	3.0	V-0	-	-	50	50	50	-	-	-

- # up to 3 letters to indicating changes in gel time of the compound.

(a) - Any letter or number indicating gel time

Marking: Company name and material designation on container, wrapper or finished part.

AGC CHEMICALS EUROPE LTD

E163914

HILLHOUSE INTERNATIONAL, THORNTON-CLEVELEYS, LANCASHIRE FY5 4QD UNITED KINGDOM

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Ethylene/Tetrafluoroethylene (E/TFE), "Fluon", furnished as pellets.											
C-55AP	NC	0.38	V-0	4	0	150	150	150	4	5	-
		0.75	V-0	4	0	150	150	150			
		1.5	V-0	2	0	150	150	150			
		3.0	V-0	1	0	150	150	150			
C-88AXMP	NC	0.38	V-0	4	1	150	150	150	0	5	0
		0.75	V-0	3	0	150	150	150			
		1.5	V-0	2	0	150	150	150			
		3.0	V-0	1	0	150	150	150			
Polytetrafluoroethylene (PTFE), "Fluon", furnished as powder, sheets.											
CD#, G@	NC	0.07	V-0	4	4	180	180	180	0	4	0
		0.75	V-0	2	0	180	180	180			
		1.5	V-0	2	0	180	180	180			
		3.0	V-0	0	0	180	180	180			
FC800-(x)	NC	0.75	V-0	-	-	180	180	180			



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Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
FC800-25	NC	0.75	V-0	-	-	180	180	180	-	-	-

- Followed by any 1 to 3 digit number.

(x) - Two digit number 01 through 24 denoting glass filler content.

@ - Followed by any 3 digit number.

Marking: Company name and material designation on container, wrapper or finished part.

AGC MATEX CO LTD

E172992

1-2-27 MIYASHIMO CHUO-KU, SAGAMIHARA-SHI,
KANAGAWA 252-0212 JAPAN

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Bulk Molding Compound "Polyester" (BMC), furnished as bulk.											
A260C	BK	1.5	V-0	-	-	105	130	130	-	-	-
		3.0	V-0	-	-	105	130	130	-	-	-
UV560C-LW (f2)	BK	2.0	V-0	-	-	105	130	130	-	-	-
Bulk Molding Compound "Polyester" (BMC), furnished as bulk, slug or molded parts.											
3550C-H (f2)	BK	1.6	V-0	-	-	105	130	130	-	-	-
Bulk Molding Compound "Polyester" (BMC), furnished as pellets.											
S560C-LW	BK	2.0	V-0	-	-	105	130	130	-	-	-
Polyphenylene Sulfide (PPS), glass reinforced, furnished as pellets.											
RE-01	BK	0.75	V-0	-	-	130	130	130	-	-	-
RE-02	BK	0.75	V-0	-	-	130	130	130	-	-	-
RE-03	BK	0.44	V-0	-	-	130	130	130	-	-	-
	BN	0.75	V-0	-	-	130	130	130	-	-	-
RE-04	BK	0.75	V-0	-	-	130	130	130	-	-	-
RE-101JA	NC, BN, BK	1.5	V-0	-	-	130	130	130	-	-	-
RE-102JA	NC, BK	1.5	V-0	-	-	130	130	130	-	4	-
		3.0	V-0	-	-	130	130	130	-	-	-
RE-3215	WT	0.75	V-0	-	-	130	130	130	-	-	-
RE3945, RG7740	NC, BK	3.0	V-1	-	-	130	130	130	-	-	-
RFC-JA	NC, BK	1.5	V-0	-	-	130	130	130	-	-	-
RFG-1530JA	NC, BN	1.5	V-0	-	-	130	130	130	-	-	-
RG-40JA	BK	0.42	V-0	-	-	130	130	130	-	-	-
	NC, BN	1.5	V-0	-	-	130	130	130	-	-	-
RG-60JA	NC, BN	1.5	V-0	-	-	130	130	130	-	-	-
RW-103JA	NC, BK	1.5	V-0	-	-	130	130	130	-	-	-
RW-104JA	NC, BK	1.5	V-0	-	-	130	130	130	-	-	-
RW-105JA	NC, BK	1.5	V-0	-	-	130	130	130	-	-	-
RW-106JA	NC	0.75	V-0	-	-	130	130	130	-	-	-
Unsaturated Polyester (UP), glass reinforced, furnished as bulk.											
A500A	ALL	1.5	HB	3	3	105	130	130	-	-	-
		3.3	HB	0	3	105	130	130	-	-	-
		6.0	HB	0	4	105	130	130	-	-	-
A500B	ALL	1.5	HB	3	3	105	130	130	-	-	-
		3.3	HB	0	3	105	130	130	-	-	-
		6.0	HB	0	4	105	130	130	-	-	-
A500C	ALL	1.5	HB	3	3	105	130	130	-	-	-
		3.3	HB	0	3	105	130	130	-	-	-
		6.0	HB	0	4	105	130	130	-	-	-
A500D	ALL	1.5	HB	2	3	105	130	130	-	-	-
		3.3	HB	0	2	105	130	130	-	-	-
		6.0	HB	0	4	105	130	130	-	-	-
A550C	ALL	1.5	V-0	1	0	105	130	130	-	-	-
		3.3	V-0	0	0	105	130	130	-	-	-
		6.0	V-0	0	0	105	130	130	-	-	-
A550D	ALL	1.5	V-0	1	0	105	130	130	-	-	-
		3.3	V-0	0	0	105	130	130	-	-	-
		6.0	V-0	0	0	105	130	130	-	-	-
E550C	BK	1.5	V-0	1	0	105	130	130	0	-	-
		3.0	V-0	0	0	105	130	130	-	-	-
		6.0	V-0	0	0	105	130	130	-	-	-
E550D	BK	1.5	V-0	1	0	105	130	130	0	-	-
		3.0	V-0	0	0	105	130	130	-	-	-
		6.0	V-0	0	0	105	130	130	-	-	-
S500B	BK	1.5	HB	1	-	105	130	130	-	-	-
S500C	BK	1.5	HB	-	-	105	130	130	-	-	-
S510B	BK	3.0	V-1	-	-	105	130	130	-	-	-
S520B	BK	2.0	V-2	-	-	105	130	130	-	-	-
S530B	BK	2.0	V-2	-	-	105	130	130	-	-	-
S560C	BK	2.1	V-0	-	-	105	130	130	-	-	-
U500C	BK	1.5	HB	-	-	105	130	130	-	-	-
U550C	ALL	1.5	V-0	0	0	105	130	130	0	-	-
		3.0	V-0	0	0	105	130	130	-	-	-
		6.0	V-0	0	0	105	130	130	-	-	-
U550D	ALL	1.5	V-0	0	0	105	130	130	0	-	-
		3.0	V-0	0	0	105	130	130	-	-	-
		6.0	V-0	0	0	105	130	130	-	-	-
Unsaturated Polyester (UP), glass reinforced, furnished as bulk, finished parts.											
3550C-LW	BK	2.0	V-0	-	-	105	130	130	-	-	-
Unsaturated Polyester (UP), glass reinforced, furnished as granular material.											
3250A	GY	1.8	V-0	0	0	105	130	130	0	4	1
		3.6	V-0	0	0	105	130	130	-	-	-
		6.0	V-0	0	0	105	130	130	-	-	-
3250B	GY	1.6	V-0	0	0	105	130	130	0	4	1
		3.4	V-0	0	0	105	130	130	-	-	-
		6.0	V-0	0	0	105	130	130	-	-	-



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PLASTICS (QMFZ2)

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
3250C	GY	1.6	V-0	0	0	105	130	130	0	4	1
		3.4	V-0	0	0	105	130	130			
		6.0	V-0	0	0	105	130	130			
3250D, 3250E	GY	1.5	V-0	1	0	105	130	130	0	4	1
		3.0	V-0	0	0	105	130	130			
		6.0	V-0	0	0	105	130	130			
3250F	GY	1.5	HB	1	0	105	130	130	0	4	1
		3.0	V-0	0	0	105	130	130			
		6.0	V-0	0	0	105	130	130			
3250FM	GY	1.5	V-0	1	0	105	130	130	0	4	1
		3.4	V-0	0	0	105	130	130			
		6.0	V-0	0	0	105	130	130			
3450A, 3450B, 3450D, 3450E	GY	1.5	HB	0	0	105	130	130	0	5	1
		3.7	V-0	0	0	105	130	130			
		6.0	V-0	0	0	105	130	130			
3450C	GY	1.5	V-0	2	0	105	130	130	0	4	-
		3.0	V-0	0	0	105	130	130			
		6.0	V-0	0	0	105	130	130			
3450F	GY	1.5	HB	1	0	105	130	130	0	5	1
		3.0	HB	0	0	105	130	130			
		6.0	HB	0	0	105	130	130			
3450FM	GY	1.5	HB	1	0	105	130	130	0	5	1
		3.0	V-0	0	0	105	130	130			
		6.0	V-0	0	0	105	130	130			
3500A, 3500B, 3500C, 3500D, 3500E	GY	1.5	HB	1	4	105	130	130	0	4	1
		3.0	HB	0	3	105	130	130			
		6.0	HB	0	3	105	130	130			
3500F	ALL	1.5	HB	1	3	105	130	130	0	4	-
		3.0	HB	0	3	105	130	130			
		6.0	HB	0	3	105	130	130			
3500FM	GY	1.5	HB	2	0	105	130	130	0	4	1
		3.0	HB	0	0	105	130	130			
		6.0	HB	0	0	105	130	130			
3550A, 3550B, 3550D	ALL	1.5	V-0	0	0	105	180	180	0	4	1
		3.0	V-0	0	0	105	180	180			
		6.0	V-0	0	0	105	180	180			
3550C	ALL	1.5	V-0, 5VA	1	0	105	180	180	0	4	1
		3.0	V-0	0	0	105	180	180			
		6.0	V-0	0	0	105	180	180			
3550C (f1)	BK	1.5	V-0, 5VA	1	0	105	180	180	0	4	1
		3.0	V-0, 5VA	0	0	105	180	180			
		6.0	V-0, 5VA	0	0	105	180	180			
3550E	ALL	1.4	V-0	1	0	105	180	180	0	4	1
		3.0	V-0	0	0	105	180	180			
		6.0	V-0	0	0	105	180	180			
3550F	ALL	1.4	V-1	1	0	105	180	180	0	4	1
		3.0	V-0	1	0	105	180	180			
		6.0	V-0	0	0	105	180	180			
3550FM	ALL	1.5	V-1	2	0	105	180	180	0	4	1
		3.0	V-0	0	0	105	180	180			
		6.0	V-0	0	0	105	180	180			
Unsaturated Polyester (UP), glass reinforced, furnished as pellets.											
T-A	ALL	0.75	V-0	2	1	105	130	130	0	4	0
		1.5	V-0	2	1	105	130	130			
		3.0	V-0	1	1	105	130	130			
Unsaturated Polyester (UP), furnished as bulk.											
S550D	BK	1.7	V-0	-	-	105	130	130	-	-	-

(f1) - Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.
(f2) - Subjected to one or more of the following tests: Ultraviolet Light, Water Exposure or Immersion in accordance with UL 746C, where the acceptability for outdoor use is to be determined by UL.

Marking: Company name and material designation on container, wrapper or finished part.

AGC POLYCARBONATE CO LTD

E141248

1 ASAH TAKETOYO-CHO, CHITA-GUN, AICHI-KEN 470-2514 JAPAN

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Polycarbonate (PC), "CARBOGLASS", furnished as Sheet or Film.											
CARBOGLASS C310C	NC	0.13	VTM-2	-	-	80	80	80	-	-	-
		0.25	VTM-2	-	-	80	80	80			
		0.3	V-2	-	-	80	80	80			
		0.35	V-2	-	-	80	80	80			
		0.38	V-2	-	-	80	80	80			
		0.50-0.55	V-2	-	-	80	80	80			
Polycarbonate (PC), "CARBOGLASS", furnished as sheets.											
CARBOGLASS C110C(L)											
	CL	0.10-0.19	VTM-2	-	-	80	80	80	-	-	-
		0.25-2.20	V-2	-	-	80	80	80			
CARBOGLASS C210C(L)											
	CL	0.13-0.27	VTM-2	-	-	80	80	80	-	-	-
		0.38-0.55	V-2	-	-	80	80	80			
CARBOGLASS C230C(L)											
	CL	0.13-0.27	VTM-2	-	-	80	80	80			



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Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
CARBOGLASS CFR(b)B	BK	0.38-0.55 0.10-0.11 0.13 0.23 0.55-0.9	V-2 VTM-0 V-0 V-0 V-0	3 3 3 3 3	- 3 3 2 2	80 80 80 130 130	80 80 80 125 125	80 80 80 130 130	4	6	3
CARBOGLASS CFR(z)C	CL	0.10-0.11 0.13 0.18 0.23 0.54-1.1	VTM-0 V-0 V-0 V-0 V-0	3 - - 3 3	3 - - 2 2	80 80 80 130 130	80 80 80 125 125	80 80 80 130 130	4	6	3
CARBOGLASS CFR110C	CL	0.10-0.11 0.13 0.18 0.23 0.54 1.0 3.0	VTM-0 V-0 V-0 V-0 V-0 V-0 V-0	3 - - 3 3 3 3	3 - - 2 2 2 2	80 80 80 130 130 130 130	80 80 80 125 125 125 125	80 80 80 130 130 130 130	4	6	3
CarboGlass CNS230N	NC	0.09 0.10 0.13 0.15 0.25-0.28	VTM-0 VTM-0 VTM-0 VTM-0 VTM-0	4 4 4 4 -	- 3 - - -	80 80 80 80 80	80 80 80 80 80	80 80 80 80 80	-	-	4
CARBOGLASS ECO Film CNH(@)B, CARBOGLASS ECO Sheet CNH(@)B	BK	0.13-0.28 0.38 0.5 3.0	VTM-0 V-2 V-2 V-0	5 4 4 4	0 0 0 0	80 80 80 80	80 80 80 80	80 80 80 80	-	-	4
CARBOGLASS ECO Film CNH(@)N, CARBOGLASS ECO Sheet CNH(@)N	NC	0.15 0.38 0.43-0.47 0.5-1.0 3.0	VTM-0 VTM-0 VTM-0 V-2 V-0	4 4 4 4 4	4 0 0 0 0	80 80 80 80 80	80 80 80 80 80	80 80 80 80 80	-	-	3
CARBOGLASS ECO sheet DEFR (+)	WT	1.8 1.9 2.0 3.0	V-0 V-0 V-0 V-0	- - - -	- - - -	80 80 80 80	80 80 80 80	80 80 80 80	-	-	-
CARBOGLASS PURE EFR	NC	2.7 3.0	V-0 V-0	- -	- -	80 80	80 80	80 80	-	-	-
CG	ALL	1.5 3.0	HB HB	- -	- -	80 80	80 80	80 80	-	-	-
CNH(@)B	BK	0.13-0.28 0.38 0.5 3.0	VTM-0 V-2 V-2 V-0	5 4 4 4	0 0 0 0	80 80 80 80	80 80 80 80	80 80 80 80	-	-	4
CNH(@)N	NC	0.15 0.38 0.43-0.47 0.5-1.0 3.0	VTM-0 VTM-0 VTM-0 V-2 V-0	4 4 4 4 4	4 0 0 0 0	80 80 80 80 80	80 80 80 80 80	80 80 80 80 80	-	-	3
Polycarbonate (PC), "CARBOGLASS", furnished as sheets or films.											
CARBOGLASS C110C	NC	0.10 - 0.24 0.25 - 2.42	VTM-2 V-2	- -	- -	80 80	80 80	80 80	-	-	-
CARBOGLASS C210C	NC	0.10 - 0.27 0.35 0.38 0.55 - 0.60	VTM-2 V-2 V-2 V-2	- - - -	- - - -	80 80 80 80	80 80 80 80	80 80 80 80	-	-	-
CARBOGLASS C230C	NC	0.10 0.13 0.25 - 0.28 0.38 - 0.60	VTM-2 VTM-2 VTM-2 V-2	- - - -	- - - -	80 80 80 80	80 80 80 80	80 80 80 80	-	-	-
CARBOGLASS ECO Film-V CNV(@)B, CARBOGLASS Sheet-V CNV(@)B	BK	0.35 0.38 0.43 1.0 - 1.1	V-0 V-0 V-0 V-0	- - - -	- - - -	80 80 80 80	80 80 80 80	80 80 80 80	-	-	-
CARBOGLASS ECO Film-V CNV(b)N, CARBOGLASS ECO Sheet-V CNV(b)N	NC	0.43 1.0-1.1	V-0 V-0	- -	- -	80 80	80 80	80 80	-	-	-
CARBOGLASS ECO Film-V CV(b)B, CARBOGLASS ECO Sheet-V CV(b)B	BK	0.40 0.43 1.0-1.1	V-0 V-0 V-0	- - -	- - -	80 80 80	80 80 80	80 80 80	-	-	-
CARBOGLASS ECO Film-V CV(b)N, CARBOGLASS ECO Sheet-V CV(b)N	NC	0.40 0.42 0.50 1.0-1.1	V-0 V-0 V-0 V-0	- - - -	- - - -	80 80 80 80	80 80 80 80	80 80 80 80	-	-	-
Polycarbonate (PC), "CARBOGLASS", furnished as sheets, film.											
CarboGlass ECO Film CNS230N, CarboGlass ECO Sheet CNS230N	NC	0.09 0.10 0.13 0.15 0.25-0.28	VTM-0 VTM-0 VTM-0 VTM-0 VTM-0	4 4 4 4 -	- 3 - - -	80 80 80 80 80	80 80 80 80 80	80 80 80 80 80	-	-	4
Polycarbonate (PC), "EXQUA", furnished as sheets.											
EXQUA NH(@)B	BK	0.13-0.28 0.38 0.5	VTM-0 V-2 V-2	5 4 4	0 0 0	80 80 80	80 80 80	80 80 80	-	-	4



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Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
EXQUA NH(@)N	NC	3.0 0.15 0.38 0.43-0.47 0.5-1.0 3.0	V-0 VTM-0 VTM-0 VTM-0 V-2 V-0	4 4 4 4 4 4	0 4 0 0 0 0	80 80 80 80 80 80	80 80 80 80 80 80	80 80 80 80 80 80	-	-	3
EXQUA NS230N	NC	0.09 0.10 0.13 0.15 0.25-0.28	VTM-0 VTM-0 VTM-0 VTM-0 VTM-0	4 4 4 4 -	- 3 - - -	80 80 80 80 80	80 80 80 80 80	80 80 80 80 80	-	-	4
Polycarbonate (PC), "EXQUA", furnished as sheets or films.											
EXQUA NV(@)B	BK	0.35 0.38 0.43 1.0 - 1.1	V-0 V-0 V-0 V-0	- - - -	- - - -	80 80 80 80	80 80 80 80	80 80 80 80	-	-	-
EXQUA NV(b)N	NC	0.43 1.0 - 1.1	V-0 V-0	- -	- -	80 80	80 80	80 80	-	-	-
EXQUA V(b)B	BK	0.40 0.43 1.0-1.1	V-0 V-0 V-0	- - -	- - -	80 80 80	80 80 80	80 80 80	-	-	-
EXQUA V(b)N	NC	0.40 0.42 0.50 1.0-1.1	V-0 V-0 V-0 V-0	- - - -	- - - -	80 80 80 80	80 80 80 80	80 80 80 80	-	-	-
Polycarbonate (PC), "Lexan", furnished as sheets.											
8010	CL	0.10-0.19 0.25-2.2	VTM-2 V-2	- -	- -	80 80	80 80	80 80	-	-	-
8A13	CL	0.13-0.27 0.38-0.55	VTM-2 V-2	- -	- -	80 80	80 80	80 80	-	-	-
8A35	CL	0.13 0.25-0.55	VTM-2 V-2	- -	- -	80 80	80 80	80 80	-	-	-
8B35	CL	0.13-0.27 0.38-0.55	VTM-2 V-2	- -	- -	80 80	80 80	80 80	-	-	-
8B36	CL	0.13-0.27	VTM-2	-	-	80	80	80	-	-	-
903	WT, CL ALL	0.74 1.5 3.0	HB HB HB	- - -	- - -	80 80 80	80 80 80	80 80 80	-	-	-
EFR6(x)	NC	0.5 ONLY 0.75-0.80 ONLY	VTM-0 V-1	- -	- -	80 80	80 80	80 80	-	-	-
FR6, FR60, FR63, FR65	CL	0.10-0.11 0.13 0.18 0.23 0.54-1.1	VTM-0 V-0 V-0 V-0 V-0	3 - - 3 3	3 - - 2 2	80 80 80 130 130	80 80 80 125 125	80 80 80 130 130	4	6	3
FR7(yy)	BK	0.10-0.11 0.13 0.23 0.55-0.9	VTM-0 V-0 V-0 V-0	3 3 3 3	3 3 2 2	80 80 130 130	80 80 125 125	80 80 130 130	4	6	3
FR88	CL	0.10 0.13 0.25	VTM-0 VTM-0 VTM-0	3 3 3	2 2 1	80 80 130	80 80 125	80 80 130	4	5	4
XL	ALL	1.5 3.0	HB HB	- -	- -	80 80	80 80	80 80	-	-	-

(+) - Replaced by COP or CLOP indicating the load of the diffusion material

(@) - Denotes three letters and/or numbers designating surface variation and coating.

(b) - denotes three letters and/or numbers designating surface variation.

(x) - denotes one letters and/or numbers designating surface variation

(yy) - denotes two letters and/or numbers designating surface variation

(z) - denotes three letters and/or numbers designating surface variation except 110

NOTE - Material designations may be followed by letters and/or numbers.

Marking: Company name or tradename "CARBO GLASS" and material designation on container, wrapper or finished part.

AGFA GEVAERT NV
SEPTESTAAT 27 2640, MORTSEL BELGIUM

E315444

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	Elec	R T I Imp	Mech Str	H V T R	D 4 9 5	C T I
Polyethylene Terephthalate (PET) Film, furnished as rolls.											
ARZONA (xxx)C MR(yyyy)	CL	0.075 - 0.250	VTM-2	-	-	105	105	105	-	-	-

(xxx) - 2 or 3 digits from 75 to 250, denoting thickness in um

(yyyy) - Represents roll width

Marking: Company name and material designation on container, wrapper or finished part.

AICA KOGYO CO LTD
JIMOKUJI FACTORY 24 FUKAMI KAMIKAYATSU, AMA-SHI,
AICHI-KEN 490-1112 JAPAN

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