

INJECTION MOLDING GRADE ABS+PC

1. SCOPE

1.1 The material defined by this specification is an injection molding acrylonitrile butadiene styrene + polycarbonate. This material shall exhibit good strength, crack resistance and good surface smoothness characteristics. Typically there is a supplementary painting process performed to this material after molding. High quality surface finishes type Class "A" is expected.

1.2 This specification may involve hazardous materials, procedures and apparatus. This specification does not address the health and safety problems associated with its application or use. It is the specification user's responsibility to follow appropriate health or safety practices and determine the application or regulatory limitation prior to use.

2. APPLICATION

This specification was originally released for materials used in the exterior applications of fenders, and hoods for tractors.

3. DESIGNATION

The Engineering drawing shall contain the following notation for the specification of the subject plastic. As described in Standard 8651126 (FNHA-3-B-100), the Applicable Standards blocks will each include a space for one standard. The part number shall be the number of this specification and the name shall be the name of this specification.

4. RELATED STANDARDS

ASTM D256 - Test Methods for Impact Resistance of Plastic and Electrical Insulating Materials.
 ASTM D570 - Test Methods for Water Absorption of Plastics
 ASTM D638 - Test Methods for Tensile Properties of plastics
 ASTM D648 - Test Method for Deflection Temperature of Plastic Under Flexural Load
 ASTM D695 - Test Methods for Compressive Properties of Rigid Plastics
 ASTM D790 - Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical insulating Materials
 ASTM D792 - Test Methods for Specific Gravity (Relative Density) and Density of Plastics by Displacement
 ASTM E831 - Test Method for Linear Thermal Expansion of Solid Materials by Thermomechanical Analysis.
 86529682 - Surface Finish Requirements

5. REQUIREMENTS

5.1 PROPERTIES

The properties for this specific material after molding are listed in Table 1.

5.2 PROCESSING PRACTICE

5.2.1 The best molding practice shall be used in processing of the specified material. Surface finish and surface imperfections shall be resolved prior to any final processing of the material.

					NAME	STD ABS+PC MATERIAL		
					 NEW HOLLAND		ENGINEERING SPECIFICATION	
							THE INFORMATION HEREON IS THE CONFIDENTIAL AND PROPRIETARY PROPERTY OF NEW HOLLAND N. V. AND/OR ITS SUBSIDIARIES. ANY USE, EXCEPT THAT FOR WHICH IT MAY BE LOANED, IS PROHIBITED.	FRAME 1 OF 3 PART NUMBER 86620070
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5.2.2 The painting process on this molded compound will be performed in the final step. Surface defects visible on the final part shall not be accepted on any "Class A" surfaces when designated on the Engineering Drawing. Also see specification 86529682.

5.3 INFRARED SPECTROPHOTOMETER

New Holland at its option, may conduct infrared analysis of material/parts supplied to this specification. The curves established for initial approval shall constitute the reference standard and shall be kept on file at New Holland, Inc. All samples shall produce curves that correspond to the reference standard when tested under the same conditions as those on the master cure.

6. APPROVAL OF MATERIALS

Materials defined by this specification must have prior approval by the responsible Materials Engineering Activity. Suppliers wanting approval of their materials shall first obtain an expression of interest from the effected Purchasing, Design or Materials Engineering Activity. Supplier shall submit to the affected Materials Engineering Activity its own Laboratory report to the specification (test results, not nominal values), the material designation and code number, and test specimens for New Holland Inc. evaluation. Upon approval, the material will be added to the Materials Engineering Approved Source List.

7. SUPPLIER'S RESPONSIBILITY

All materials supplied to this specification shall be equivalent in all characteristics to the material upon which approval was originally granted. Prior to the making of any changes in the properties, composition, construction, color, dimensions, processing or labeling of the material originally approved under this specification, the supplier shall notify Purchasing and the affected Materials Engineering activity of the proposed changes and obtain the written acknowledgment from the Material Engineering activity. Test data, test samples and a new identification code are to be submitted with the request.

 NEW HOLLAND	NAME				PART NUMBER	
	STD ABS+PC MATERIAL				86620070	
ENGINEERING SPECIFICATION		REV. A	FRAME 2	OF 3	 86620070	