



POLYVINYL CHLORIDE (PVC), FLEXIBLE, 55 A
DUROMETER HARDNESS, INTERIOR

WSB-M4D871-A1

POLYVINYL CHLORIDE (PVC), FLEXIBLE, 65 A
DUROMETER HARDNESS, INTERIOR

WSB-M4D871-A2

POLYVINYL CHLORIDE (PVC), FLEXIBLE, 75 A
DUROMETER HARDNESS, INTERIOR

WSB-M4D871-A3

POLYVINYL CHLORIDE (PVC), FLEXIBLE, 85 A
DUROMETER HARDNESS, INTERIOR

WSB-M4D871-A4

1. SCOPE

The materials defined by these specifications are flexible polyvinyl chloride compounds.

2. APPLICATION

These specifications were released originally for materials used for interior trim applications such as armrests, grab handles and other applications.

3. REQUIREMENTS

3.0 STANDARD REQUIREMENTS FOR PRODUCTION MATERIALS

Material suppliers and part producers must conform to the Company's Standard Requirements For Production Materials (WSS-M99P1111-A).

3.4 MOLDED TEST SPECIMEN

3.4.1 Preparation of Test Specimens

Unless otherwise specified, all test shall be conducted on specimens die cut from ungrained compression molded plaques 150 x 150 x 2.0 +/- 0.2 mm molded according to ISO 293.

		A1	A2	A3	A4
3.4.2	Density, g/cm ³ , max (ISO 1183, Method A/ ASTM D 792, Method A)	1.30	1.35	1.40	1.45
3.4.3	Hardness, Durometer A, +/- 5 (ISO 868/ASTM D 2240, 6 mm thick plied-up specimens, 15 s delay)	55	65	75	85

Date	Action	Revisions
2006 05 22	Revised	Inserted 3.0; Deleted 3.1, 3.2, 3.3, 3.7, 3.8 & 4
1993 01 21	Released	NB00110043054220

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ENGINEERING MATERIAL SPECIFICATION

WSB-M4D871-A1/A2/A3/A4

		A1	A2	A3	A4
3.4.4	Tensile Strength, MPa, min (ISO R 527, type 2/ ASTM D 638M, type M-II, 500 mm/min test speed)	6.9	9.6	10.3	12.4
3.4.4.1	Elongation at Break, %, min (Test Method acc. to para 3.4.4)	350	300	250	200
3.4.5	Tear Strength, kN/m, min (ISO 34, Method B, Procedure a/ASTM D 624, Die C)	18	26	35	44
3.4.6	Cold Flexibility, °C (FLTM BN 102-01, except specimen 25 x 150 mm, minimum and 19-20 mm mandrel)	-40	-34	-29	-23
		No cracking at specified temperature			
3.4.7	Soiling and Cleanability, (NAAO Molders only) (FLTM BN 112-01)				
	Soiling, %, max			15	
	Cleanability, %, max			5	
3.4.8	Color Stability (ISO 188/ASTM D 573, 168 h at 100 +/- 2 °C)				
	After exposure the material shall not exhibit color change in excess of rating 4 of Gray Scale rating (AATCC Evaluation Procedure 1/ISO 105-A02).				
	In addition there shall be not be any staining, spewing, loss of gloss.				
3.4.9	Heat Aging Performance (ISO 188/ASTM D 573, 150 +/- 50 air changes/h, 1000 h at 85 +/- 2 °C. Unaged property values shall be determined at the time of the aged properties determination)				
3.4.9.1	Tensile Strength Change (Test Method per para 3.4.4)			+/- 15%	
3.4.9.2	Elongation Change (Test Method per para 3.4.4)			+/- 15%	
3.4.9.3	Weight Change, max (50 x 25 x 2 +/- 0.2 mm specimen)			2%	