



THERMOPLASTIC POLYOLEFIN, LOW TEMPERATURE, FLEXIBLE AUXILIARY FLOOR MATS

WSS-M99D65-A1

1. SCOPE

The material defined by this specification is a thermoplastic polyolefin of good quality and uniform construction, suitable for molded or extruded parts.

2. APPLICATION

This specification was released originally for material used as a substrate for carpeted auxiliary floor mats in the 1996 Crown Victoria/Grand Marquis and Town Car.

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 APPEARANCE (FLTM BI 109-01)

The color, pattern, finish and gloss shall match the approved Design Center master sample, or shall be specified on the engineering drawing.

3.5 PROPERTIES PRIOR TO MOLDING OR EXTRUSION

3.5.1 Weight, min 740 g/m²

3.5.2 Hardness, Durometer A 60 - 85
(ISO 868/ASTM D 2240)

3.5.3 Tensile Strength, min
(ISO 37, Type 1/ASTM D 412, Die A,
crosshead speed 250 mm/minute)

WMD 6 MPa
AMD 6 MPa

3.5.3.1 Elongation, min
WMD and AMD 350%

3.5.4 Tear Strength, min
(ISO 34, Method B, Procedure A/
ASTM D 624, Die C, except
50 mm/minute test speed)

Date	Action	Revisions
2006 12 19	Revised	Inserted 3.0; Deleted 3.1, 3.2, 3.3, 3.7, 3.8 & 4
1995 04 03	Revised	Revised Title
1995 02 16	Activated	



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	WMD	20 N/mm
	AMD	20 N/mm
3.5.5	Bend Test (FLTM BN 102-01, except sample size 25 x 150 mm)	No cracking
	Test Method: Bend sample 180° around a 1.6 mm diameter mandrel at 23 +/- 2 °C, WMD and AMD.	
3.5.6	Cold Flexibility (FLTM BN 102-01, except sample size 25 x 150 mm)	Shall remain flexible and not crack
	Test Method: Bend sample 180° around a 6 mm diameter mandrel at -34 +/- 1 °C, WMD and AMD.	

3.6 PROPERTIES AFTER MOLDING OR EXTRUSION

3.6.1	Aged Properties (ASTM D 573/ISO 188, except 150 +/- 50 air changes/h, 1000 h at 70 +/- 2 °C and condition according to 3.3)	
	Must meet all requirements specified under section 3.5.	
3.6.2	Odor, max (FLTM BO 131-01/SAE J1351)	Rating 2
3.6.3	Fogging (FLTM BO 116-03, 3 h at 100 °C)	
	Fog Number, min	60
	The formation of a clear film, droplets or crystals is cause for rejection.	
3.6.4	Dimensional Stability, %, max, avg of 3 (SAE J883 except 70 +/- 2 °C heat test only)	
	WMD	AMD
	1 h	0.5
	100 h	0.5
	Test Procedure: Sample size should be 120 x 120 mm and mark off 100 x 100 mm dimensions for the test. Condition for 1 h after the test and measure to the nearest 0.5 mm.	
3.6.5	Flammability (ISO 3795/SAE J369)	
	Burn Rate, max	100 mm/minute