



POLYPROPYLENE (PP) FLOOR MAT, GRAINED, FLAT

WSB-M99D63-A1

POLYPROPYLENE (PP) FLOOR MAT, GRAINED, SHAPED

WSB-M99D63-A2

1. SCOPE

The material defined by these specifications is a floor mat made of modified polypropylene of good quality and uniform construction, suitable for flat and shaped parts.

2. APPLICATION

These specifications were released originally for material used in trucks, vans and police cars.

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).

3.1.1 All requirements of this specification, identified by symbol (s), shall be met with data representing 3 sigma values.

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 CONSTRUCTION

	A1	A2
3.5.1 Weight, g/m ² , min	920	1250

Test Method: Calculate weight vs. area of finished mat without attachments.

3.6 PROPERTIES PRIOR TO MOLDING

3.6.1 Hardness, Durometer A (ISO 868/ASTM D 2240, except test unembossed material, single ply)	80 - 95	80 - 95
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3.6.2 Tensile Strength, N, min (ISO 37, Type 1/ASTM D 412, Die A, crosshead speed 250 mm/minute)		
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WMD	125	200
AMD	95	175

Date	Action	Revisions
2006 12 19	Revised	Inserted 3.0; Deleted 3.1, 3.2 ,3.3, 3.9, 3.10 & 4
1994 07 06	Released	NB00110043054337



3.6.2.1	Elongation, %, min		
	WMD and AMD	350	450
3.6.3	Tear Strength, N, min (ISO 34, Method B, Procedure A/ ASTM D 624, Die C, except 50 mm/minute test speed)		
	WMD	50	75
	AMD	55	85
3.6.4	Bend Test (FLTM BN 102-01, except sample size 25 x 150 mm)		No cracking
	Test Method: Bend unembossed side of sample 180° around a 1.6 mm diameter mandrel at room temperature, WMD and AMD.		
3.6.5	Cold Flexibility (FLTM BN 102-01, except sample size 25 x 150 mm)		Shall remain flexible and not crack
	Test Method: Bend unembossed side of sample 180° around a 6 mm diameter mandrel at -34 +/- 1 °C, WMD and AMD.		

3.7 PROPERTIES AFTER MOLDING (WSB-M99D63-A2 only)

Material from a relatively flat area at, or adjacent to the deepest draw areas of the molded mat shall meet the minimum original requirements of the flat mat (A1).

3.8 The following tests should be performed on material as received for the A1 suffix and after molding for the A2 suffix.

- 3.8.1 Aged Properties
(ASTM D 573/ISO 188, except 150 +/- 50 air
changes/h, 1000 h at 115 +/- 2 °C
and condition according to 3.3)

Must meet flat mat requirements specified under section 3.6.

- 3.8.2 Fade Resistance, min
(SAE J1885, AATCC Evaluation Procedure 1/
ISO 105-A02)

112.8 kJ/m²

Rating 4.5

The material shall not stain, exhibit color tone change or change in hue in excess of the specified AATCC rating. In addition, there shall be no cracking, crazing, or other deterioration. The material must remain flexible and exhibit no cracking when bent around a 6 mm diameter mandrel after specified exposure, unembossed side to mandrel.