



**FLEXIBLE COVERSTOCK, EXPANDED POLYVINYL CHLORIDE (PVC),
POLYESTER KNITTED FABRIC BACKED, COATED WITH PROTEIN TOP
COAT FINISH**

WSS-M2F207-A2

**FLEXIBLE COVERSTOCK, EXPANDED POLYVINYL CHLORIDE (PVC),
POLYESTER KNITTED SPACER FABRIC BACKED**

WSS-M2F207-A3

1. SCOPE

The materials defined by these specifications are laminates consisting of a solid polyvinyl chloride (PVC) film, an expanded PVC layer, and various fabric backings.

2. APPLICATION

These specifications were released originally as a flexible covering, with or without decorative stitching, to wrap a plastic/foam substrate for instrument panel applications. This material is not suitable for seating or door panel applications. This material must also meet the requirements in WSS-M15P45-B for instrument panels and soft interior components.

2.1 LIMITATIONS

- 100% cotton or cotton/polyester blends not to be used as fabric backing to reduce visual defects.
- If the plastic substrate is an olefin based material, it must be pretreated with either adhesion promoter, flame, or plasma treatment and no slip agent should be present unless validated with the slip agent.
- If the plastic substrate is a styrenic based material, the PVC should not come in direct contact with the substrate or chemical compatibility testing must be performed.
- The decorative thread and stitching must be evaluated by Design.
- The sewing must be done in a way to not show the substrate and or backing fabric.

3. REQUIREMENTS

3.1 STANDARD REQUIREMENTS FOR PRODUCTION MATERIALS

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

3.2 APPEARANCE

3.2.1 Color Matching with Artificial Light (FLTM BI 109-01, Visual Assessment)

The color, pattern and finish shall match the approved Design Center master sample, or shall be as specified on the Engineering Document.

3.2.2 Gloss (FLTM BI 110-01, ASTM523)

As specified on the
Engineering Drawing

3.3 COMPOSITION

	A2	A3
Face Material	Polyvinyl chloride (PVC)	Polyvinyl chloride (PVC)
Backing	Polyester knitted fabric	Polyester knitted spacer fabric

Date	Action	Revisions
2010 06 22	Activated	



Documents

Document Sharing Hub

**3.4 TEST SPECIMENS**

Unless otherwise specified, all tests shall be carried out on specimens die cut from roll goods.

3.5 TOTAL THICKNESS, mm
(ISO 2286, Part 3)

WSS-M2F207-A2	1.1 +/- 0.2
WSS-M2F207-A3	1.75 +/- 0.2

3.6 WEIGHT, g/m², min
(ISO 2286, Part 2)

WSS-M2F207-A2 total	655
Polyvinyl Chloride (PVC)	585
Knitted polyester fabric	70 (target)
WSS-M2F207-A3 total	860
Polyvinyl Chloride (PVC)	690
Polyester knitted structured fabric	170 (target)

3.7 BREAKING STRENGTH, N min
(ASTM D 751, grab method)

WSS-M2F207-A2	WSS-M2F207-A3
WMD 250	400
AMD 250	400

3.8 RESISTANCE TO TEAR (Trapezoid), N, min
(ASTM D 5733, Integration method)

WSS-M2F207-A2	WSS-M2F207-A3
WMD 30	100
AMD 30	100

3.9 HEAT AGING PERFORMANCE

(ISO 188, except 150 +/- 50 air changes/h, 240 h at 107°C +/- 2 °C
Unaged property values shall be determined at the time of the aged
properties determination)

3.9.1	Color Stability, min (AATCC Procedure 1/ISO 105-A02)	Rating 4
3.9.2	Cold Flexibility (SAE J323 Method A, -20 °C, 20 mm mandrel, Specimen size, 50 x 150 mm)	No Cracks
3.9.3	Elongation at Break Change, % max From Original Value, (ISO R 527, type 2/ASTM 638M-II, 100 mm/minute test speed)	+/- 20%
3.9.4	Dimensional Stability, max (SAE J883)	4%

3.10 HUMIDITY AGING PERFORMANCE
(FLTM BQ 104-02, 7 days)

3.10.1	Color Stability, min (AATCC Procedure 1/ISO 105-A02)	Rating 4
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