



FLEXIBLE COVERSTOCK, THERMOPLASTIC OLEFIN (TPO),
POLYESTER KNITTED FABRIC BACKED **NOT TO BE USED FOR NEW DESIGN**

WSS-M2F208-A1

FLEXIBLE COVERSTOCK, THERMOPLASTIC OLEFIN (TPO),
OPEN CELL POLYURETHANE FOAM BACKED **NOT TO BE USED FOR NEW DESIGN**

WSS-M2F208-A2

FLEXIBLE COVERSTOCK, THERMOPLASTIC OLEFIN (TPO),
POLYESTER KNITTED SPACER FABRIC BACKED

WSS-M2F208-A3

1. SCOPE

The materials defined by this specification are laminates consisting of a solid thermoplastic olefin (TPO) film, and various fabric backings.

2. APPLICATION

This specification was released originally as a flexible covering with or without decorative stitching, to manually wrap and adhesively bond to a plastic substrate for instrument panel applications.

2.1 LIMITATIONS

- The WSS-M2F208-A2 material should not be used for seamless Passenger Airbag (PAB) applications.
- If the plastic substrate is an olefin based material, it must be pretreated with adhesion promoter or flame or plasma treatment and no slip agent should be present unless validated with the slip agent.
- 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).

3.1.1 Materials used in interior applications must meet the requirements outlined in WSS-M99P2222-C1/Latest, Performance, *Vehicle Interior Environment Quality Material/Component Requirements*. Data must be included in material submission package.

3.1.2 Performance Criteria:
Parts using this specification shall meet the appropriate performance specification, WSS-M15P45-B/Latest and if sewn, the thread must comply to WSS-M8P5-C.

Date	Action	Revisions	Rev. 1
2014 11 24	N Status	A1/A2 no replacements named	D. Murtone, NA
2012 04 26	Activated	Activated	J. Vanowski, NA

**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)

As specified on the
Engineering Drawing

3.3 COMPOSITION

	WSS-M2F208-A1	WSS-M2F208-A2	WSS-M2F208-A3
Face Material:	Thermoplastic Olefin (TPO)	TPO	TPO
Backing:	Polyester knitted fabric	Polyester knitted fabric Polyurethane foam	Polyester knitted fabric Polyester knitted spacer fabric

3.4 TEST SPECIMENS

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

3.5 TOTAL THICKNESS
(ISO 2286, Part 3)

WSS-M2F208-A1	0.88 +/- 0.2 mm
WSS-M2F208-A2	1.63 +/- 0.2 mm
WSS-M2F208-A3	2.11 +/- 0.3 mm

3.6 WEIGHT
(ISO 2286, Part 2)

WSS-M2F208-A1 total	480 g/m ² min
WSS-M2F208-A2 total	574 g/m ² min
WSS-M2F208-A3 total	811 g/m ² min

3.7 BREAKING STRENGTH, N min
(ASTM D751, Grab Method)

	WSS-M2F208-A1	WSS-M2F208-A2	WSS-M2F208-A3
WMD	450	550	800
AMD	350	450	700