FLEXIBLE POLYURETHANE COATED COVERSTOCK, KNITTED FABRIC BACKED — **WSS-M2F206-A1**

FLEXIBLE POLYURETHANE COATED COVERSTOCK, NONWOVEN FABRIC BACKED — **WSS-M2F206-A2**

FLEXIBLE POLYURETHANE COATED COVERSTOCK, KNITTED SPACER FABRIC BACKED — **WSS-M2F206-A3**

1. SCOPE

The material defined by this specifications is a flexible polyurethane coated coverstock with a knitted, nonwoven, or knitted spacer fabric backing used in the production of wrapped IP, interior door panel or console lid.

2. APPLICATION

This specification was released originally as a flexible skin that can be used to wrap and thread top stitch a hard plastic substrate for an instrument panel. This material must also meet the requirements in WSS-M15P45-B/latest and any applicable SDS, including, but not limited to the IP, IT and PAB SDS.

WSS-M2F206-A1: Polyurethane coated coverstock with a knitted fabric backing originally released for the S197 topper panel.

WSS-M2F206-A2: Polyurethane coated coverstock with a nonwoven fabric backing originally released for the D385 instrument panel binnacle.

WSS-M2F206-A3: Polyurethane coated coverstock with a knitted spacer fabric originally released for the D385 instrument panel.

2.1 Limitations

Only the A3 construction can be used for seamless PAB (passenger air bag) instrument panel applications.

3. REQUIREMENTS

3.1 APPROVED SOURCES

This specification requires the use of approved sources. Only the sources identified on the Ford Approved Source List (ASL) can be used when this specification is listed on the drawing, CAD file, or other documents. The list of approved sources is located within Ford at www.mats.ford.com or available externally through a Ford Materials Engineer.

3.1.1 Vehicle Interior Environmental Quality Materials/Component Performance Requirements Components used in interior applications must meet the requirements outlined in WSS-M99P2222-D1/latest.

3.2 CONDITIONING AND TEST CONDITIONS

All test values are based on material conditioned for not less than 24 h prior to testing in a controlled environment of 23 +/- 2 °C and 50 +/- 5% relative humidity. Testing of the material should occur in the conditioning environment or soon after removal.

3.3 APPEARANCE

The color, grain, gloss and hand shall match the approved Corporate Design master sample.

Date	Action	Revisions	Rev. 3
2017 12 04	Editorial	See Summary of Revisions	S. Gatzek, NA
2016 12 06	Editorial	See Summary of Revisions	S. Gatzek, NA
2006 09 13	Activated	A1 and A2. A3 released XXX 2015	L. Schmalz, NA

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3.4 COMPOSITON

	A1	A2	A3
Face Material:	Polyurethane	Polyurethane	Polyurethane
Backing Material:	Polyester Knitted Fabric	Polyester Nonwoven Fabric	Polyester Knitted Spacer Fabric

3.5 TOTAL THICKNESS
(ISO 2286, Part 3)

A1	A2	A3*
0.95 – 1.35 mm	1.30 – 1.70 mm	1.45 – 1.85 mm

* Thickness may differ from the listed values based on program targets and part design; tolerances for each layer and total thickness as specified on program specific Engineering Document (part drawing, SCCAF, etc.).

3.6 WEIGHT
(ISO 2286, Part 2)

	A1	A2	A3*
Polyurethane	420 g/m^2 (target)	420 g/m^2 (target)	350 g/m^2 (target)
Backing Fabric	145 g/m^2 (target)	255 g/m^2 (target)	170 g/m^2 (target)
Total Weight	450 – 650 g/m^2	670 – 870 g/m^2	420 – 620 g/m^2

* Weight may differ from the listed values based on program targets and part design; tolerances for each layer and total weight must be specified on program specific Engineering Document (part drawing, SCCAF, etc.).

3.7 BREAKING STRENGTH
(ASTM D751, grab method)

	A1	A2	A3
WMD	300 N min	550 N min	300 N min
AMD	250 N min	650 N min	250 N min

3.8 RESISTANCE TO TEAR (Trapezoid)
(ASTM D5733, Integration method)

	A1	A2	A3
WMD	60 N min	85 N min	60 N min
AMD	50 N min	55 N min	110 N min

3.9 RESISTANCE TO HEAT AGING
(ISO 188, except 150 +/- 50 air changes/h, 500 h at 120 °C +/- 2 °C
Unaged property values shall be determined at the time of the aged properties determination)

3.9.1 Color Stability (AATCC Procedure 1/ISO 105-A02) — Rating 4 min

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 — 20 % max

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