

**FLEXIBLE COVERSTOCK, PREMIUM VINYL (PVC) COATED,
WITH HIGH STRETCH PERFORMANCE****WSS-M2F213-A1****1. SCOPE**

The material defined by this specification is an expanded polyvinyl chloride film laminated to a knitted high stretch polyester fabric. These materials can be used laminated with foam and/or a backing fabric/scrim, based on the application.

2. APPLICATION

This specification was released originally for the MKX door and is intended for use in interior trim as a covering for door trim or IP wrapping applications in passenger vehicles. Any other applications must be evaluated by the appropriate product engineer with functional testing and approved by Materials Engineering.

2.1 LIMITATIONS

This material is not intended for seating applications.

3. REQUIREMENTS**3.1 STANDARD REQUIREMENTS FOR PRODUCTION MATERIALS**

3.1.1 Materials used in interior applications must meet the requirements outlined in WSS-M99P2222-D1/latest, *Performance, Vehicle Interior Environmental Quality Material/Component Requirements*. Data must be included in material submission package.

3.1.2 In addition to the requirements listed herein, this material shall meet the requirements of WSS-M15P45-B/Latest *Instrument Panel and Soft Interior Components, Flexible Cover Skin Material Performance* specification. Depending on the application, the material may be required to meet WSS-M8P3-E1/E2/E3/latest, *Performance, Flexible Polymeric Film, Interior Quality*.

3.2 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, CADfile 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.

3.3 CONDITIONING AND TEST CONDITIONS

All 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.

3.4 APPEARANCE

The color, pattern, grain, gloss level and finish shall match the approved Corporate Design Master Sample.

Date	Action	Revisions	Rev. 01
2017 06 27	Editorial	Corrected footer	A. Collins, NA
2016 05 19	Released		S. Gatzek, NA



3.5 COMPOSITION

3.5.1 Vinyl Coated Fabric Composite

3.5.1.1	Total Weight – Vinyl and Supporting Fabric (ASTM D751, Sample Method)	640 – 780 g/m ²
3.5.1.2	Thickness	1.0 – 1.3 mm

3.5.2 Supported Fabric

3.5.2.1	Fabric Composition (ASTM D276)	100% Polyester Circular Knit
3.5.2.2	Weight (ASTM D751, Sample Method)	67 – 82 g/m ²

3.6 PHYSICAL PROPERTIES

3.6.1 Breaking Strength (ASTM D751, Grab Method)

WMD	300 N min
AMD	300 N min

3.4.2 Tear Strength (ASTM D751, Trapezoid Tear)

WMD	70 N min
AMD	70 N min

3.4.3 Stretch and Set (SAE J855, 5 MIN/120 N)

Stretch	
WMD	40% min
AMD	100% min

Set	
WMD	Report Only
AMD	Report Only

4. GENERAL INFORMATION

The information given below is provided for clarification and assistance in meeting the requirements of this specification. Contact gmfs@ford.com for questions concerning Engineering Material Specifications.

4.1 APPROVAL OF MATERIALS

Suppliers desiring approval of their materials shall first obtain an expression of interest from Purchasing, Design or Product Development, and Materials Engineering. The supplier shall submit a completed copy of their laboratory test reports, signed by a qualified and authorized representative of the test facility, demonstrating full compliance with all the requirements of the Material Specification. Tested material samples must be available for review upon request and kept for a minimum of one year. Upon request, the supplier will review the associated quality