



**PERFORMANCE, FLEXIBLE POLYMERIC FILM,
INTERIOR, SUPPORTED, STANDARD TOP COAT**

WSS-M8P3-F1

**PERFORMANCE, FLEXIBLE POLYMERIC FILM, INTERIOR,
SUPPORTED, DENIM DYE BARRIER TOP COAT**

WSS-M8P3-F2

1. SCOPE

This specification defines the performance requirements for interior supported polymeric films.

2. APPLICATION

This specification was released originally for materials used as interior trim coverings for seat, door panels, consoles, IP mid and lower, and armrests.

WSS-M8P3-F1 is defined as flexible polymeric film for interior use with standard topcoat that meets haptic and performance specification requirements.

WSS-M8P3-F2 is defined as flexible polymeric film for interior use with the additive to meet denim dye barrier requirements while maintaining haptic and performance specification requirements.

This suffix level of specification (F1/F2) will go into effect for any new construction and color approvals for MY production 2022. All other model years prior to 2022 were approved under the E suffix and will be deemed carry-over for construction and color if there are no changes. New colors for model years prior to MY 2022 on already approved leather/grain combinations but a new color is introduced, this new color must meet the F1/F2 suffix for color properties.

3. REQUIREMENTS

3.1 APPROVED SOURCES

This specification is performance based and does not have approved sources.

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 CONSTRUCTION

All construction information must be supplied on the Material Supplier Specification Information Sheet (Appendix A) and must be included in the construction submission package. Contact Materials Engineering for an electronic copy.

3.4 PERFORMANCE REQUIREMENTS

In addition to the requirements listed herein, the face flexible polymeric film shall meet all requirements of the applicable M2F material specification. Seat trim cover assemblies or interior trim panels employing these materials must also meet the engineering requirements of the related Ford Motor Company performance specifications such as:

Date	Action	Revisions	Rev. 00
2018 06 15	Released		



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- WSS-M15P45-C/latest
- WSS-M8P30-A/latest

This performance specification contains minimum requirements. The materials specification shall take precedence over the performance specification for any requirement that differs from the performance specification.

3.5 SEATING VINYL TRIM FEASIBILITY

Seating vinyls satisfying this specification must pass the Interior Seating Trim Cover Phase II process. Refer to the Regional Core Seat Engineering Team for the Process Guidelines and Requirements.

3.6 TEST PLAN

Unless otherwise directed by Materials Engineering, all initial evaluation and testing shall be conducted as flat stock.

See Table 1 for construction and color approval test requirements

3.7 APPEARANCE

The color, pattern, and finish shall match the approved Corporate Design master sample.

3.8 VEHICLE USAGE DEFINITIONS

For seating application, testing and evaluation must comply with the following vehicle call outs defined per category:

Passenger Vehicles include platforms for cars, SUV's, and CUV's, such as but not exclusive to Focus, Mondeo, Fusion, Ka, Ecosport, Expedition, and Edge.

Commercial and Truck include platforms for trucks, taxi, cargo vans such as but not exclusive to F-150, Transit, Ranger, Police, and Taxi.

3.9 FOGGING (PHOTOMETRIC)

(SAE J1756, 3 h at 100 °C heating, 21 °C
Cooling plate, post testing conditioning 16 h)

Fog Number 70 min

Formation of clear film, droplets or crystals is cause for rejection

For shipping, all materials or parts shall be sampled immediately after manufacture, then bagged in a zipper- or slide-sealed polyethylene (PE) bag, PE-coated aluminum bag or wrapped in aluminum foil prior to bagging. Test specimens shall be cut, then stored in a clean, open environment for 14-28 days. After 14-28 days of air exposure, the specimens shall be tested immediately or re-bagged until testing can be performed. Bagged materials or parts must be labelled on the outside of the bag with the following information, and included in the test report: supplier, contact information, product code/trade name or part number, manufacturing location, date of manufacture, shipping date, start and end dates of conditioning period and test date.

3.10 ODOR

(FLTM BO 131-03, Variant C)

Condition 1

Condition 2

Condition 3

Rating 3 max

Rating 3 max

Rating 3 max



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**3.11 FLAMMABILITY**

(ISO 3795, Test 5 Samples)
Burn Rate

100 mm/minute max

3.12 CONSTRUCTION PROPERTIES

Requirements are found in the relevant Material Specification.

3.12.1 WEIGHT

(ASTM D751, 5 specimen, sample method)

Report (g/m²)**3.12.2 FINISHED THICKNESS**

(ASTM D751, 5 specimen)

Report (mm)

3.12.3 TEAR STRENGTH

(ASTM D751, 3 specimen MD and AMD, trapezoid tear)

Report (N)

3.12.4 BREAKING STRENGTH

(ASTM D751, 3 specimen MD and AMD, grab method)

Report (N)

3.12.5 SEAM DETERIORATION

(FLTM BN 106-02, 3 specimen MD and AMD, seating applications only)

2 mm max

No "running" permitted from needle hole. No distortion of design intent. No significant "grin through" of underlying foam allowed.

3.12.6 SEAM STRENGTH

(FLTM BN 119-01, Average of 3 samples)

6 +/- 2mm Seam Allowance

350 N min

Vinyl with Perforation

Report Only

3.12.7 ADHESION**3.12.7.1 COATING ADHESION**

(FLTM BI 106-01, Method C)

No removal of surface
coating or vinyl film

3.12.7.2 FILM TO BACKING

(FLTM BN 151-05)
MD and AMD

25 N/50 mm min

3.12.8 STRETCH AND SET

(SAE J855)

Stretch MD

Report (%)

Set MD

Report (%)

Stretch AMD

Report (%)

Set AMD

Report (%)