LAMINATE, POLYESTER FABRIC, POLYURETHANE FOAM, LYRIC PATTERN, KNIT, 100% VIRGIN — **WSS-M5H40-B1**

LAMINATE, POLYESTER FABRIC, POLYURETHANE FOAM, POLYESTER BACKING, LYRIC PATTERN, KNIT, 100% VIRGIN — **WSS-M5H40-B2**

LAMINATE, POLYESTER FABRIC, POLYURETHANE FOAM, LYRIC PATTERN, KNIT, RECYCLED PIR/PCR CONENT — **WRS-M5H40-B20**

LAMINATE, POLYESTER FABRIC, POLYURETHANE FOAM, POLYESTER BACKING, LYRIC PATTERN, KNIT, RECYCLED PIR/PCR CONENT — **WRS-M5H40-B21**

1. SCOPE

The material defined by this specification is a Lyric pattern, knit fabric, flame laminated to flame bondable polyether urethane foam or adhesive laminated to a backing scrim.

2. APPLICATION

This specification was released originally for material used as cover material for headliners, sun visors and pillars. Any other applications must be evaluated and approved by the responsible Materials Engineering activity.

2.1 LIMITATION

Dark colors used for pillar applications, must use a dark colored backing to prevent read through.

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.

3.2 WSS-M5H40-B1/2. This specification is based on virgin materials.

3.3 WRS-M5H40-B20/21. This specification must contain 20% minimum recycled content as defined by WRS-M99P42-A2. The remaining portion of the material can come from virgin sources.

3.4 APPEARANCE

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

3.5 FABRIC PERFORMANCE

3.5.1 Materials manufactured to this Specification shall also meet the following applicable specifications:

- Headlining Formed Performance: WSS-M15P27-G/latest
- Performance, Roof Systems Fabrics, Interior: WSS-M8P27-A1/latest.

Date	Action	Revisions	Rev. 3
2016 06 16	Revised	See Summary of Revisions	L. Rabideau, NA
2016 03 22	Released	B20, B21	A. Wagenhals, NA
2015 05 08	Released		D. Murtonen, NA

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3.6 VEHICLE INTERIOR ENVIRONMENTAL PERFORMANCE

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.

3.7 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.

3.8 COMPOSITION

3.8.1 Fabric (ASTM D276-12) — 100% Polyester

3.8.1.1 Weight (FLTM BN 106-01)

Face fabric only — 105 g/m^2 +/- (5%)

3.8.1.2 Fabric Count (ASTM D3887)

Wales — 130-161/10cm
Courses — 130-161/10cm

3.8.2 Foam — Polyether Polyurethane

The foam shall be polyether polyurethane and must meet Headlining Performance Specification WSS-M15P27-F/latest.

3.8.2.1 Thickness — As specified on Engineering Drawing

3.9 STRENGTH PROPERTIES

3.9.1 Breaking Strength (ASTM D5034 Grab Method, 300 mm/min speed Average of 5 samples in each direction) — 250N min

3.9.2 Breaking Strength Retention after Resistance to Interior Weathering (FLTM BO 116-01)

3.9.2.1 Retained Breaking Strength (ASTM D5034 Grab Method, 300 mm/min speed Average of 5 samples in each direction)

Headliner application 225.6 kJ/m^2
MD and AMD — 150N min

Sun Visor and Pillar application 977.6 kJ/m^2
MD and AMD — 150N min

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