



LAMINATE, POLYESTER FABRIC, POLYURETHANE FOAM, PRISM LITE PATTERN, KNIT

WSS-M5H37-A

1. SCOPE

The material defined by this specification is a Prism Lite pattern, knit fabric, flame laminated to flame bondable polyether urethane foam.

2. APPLICATION

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

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.

For all test methods, no individual specimen shall fall below the minimum values specified herein.

3.2 Materials manufactured to this specification may also need to meet the following applicable Specifications:

Headlining Formed Performance: WSS-M15P27-G/latest
Roof Systems Fabric Performance: WSS-M8P27-A1/latest
Roller Shade Material: WSS-M5H34-B1/latest
Flexible Foam Performance: WSS-M99P48-A2/latest

3.3 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.

3.4 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.

3.5 APPEARANCE

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

3.6 ROLL GOODS QUALITY

Date	Action	Revisions	Rev. 3
2015 11 11	Re-Activated		D. Murtonen, NA
2015 08 21	N Status	Not in global strategy no future use.	D. Murtonen, NA
2011 06 07	Activated	S. Stanciu/M. Dumitrescu	J. Williams



The laminate shall be uniformly bonded, and the fabric shall not delaminate from the foam during shipping, handling or in-plant processing.

3.7 COMPOSITION

(ASTM D276)

Fabric
Foam

100% Polyester
Polyether Polyurethane

3.8 FABRIC REQUIREMENTS

The following shall be conducted on unbonded fabric

3.7.1 Fabric count (ASTM D3887)

Wales
Courses

125-145 wales/10 cm
130-150 courses/10 cm

3.7.2 Weight (FLTM BN 106-01)

Fabric face only

80 - 110 g/m²

3.9 FOAM

The foam shall be polyether polyurethane.

3.8.1 Thickness As specified on Engineering Drawing

3.10 STRENGTH PROPERTIES

3.10.1 Breaking Strength (ASTM D5034 Grab Method, 305 mm/min speed of testing, Average of 5 samples in each Direction)

35N min

3.10.2 Ultraviolet Deterioration (FLTM BO 116-01, 225.6 kJ/m²)

3.10.2.1 Retained tensile strength (ASTM D5034 Grab Method, 305 mm/min speed of testing, Average of 5 samples in each Direction)

35 % of original
value, min

4. GENERAL INFORMATION

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

4.1 Purchase departments will ensure that the material defined in this specification and shipped to any one assembly plant will be produced by one supplier only. In the event of a Global Program