



FABRIC, WINSTON, NON WOVEN, LATEX IMPREGNATED

WSS-M5H46-A1

1. SCOPE

The material defined by this specification is for Winston pattern, a needled non-woven polyester fabric impregnated with synthetic latex.

2. APPLICATION

This specification was released originally for material used as cover material for headliners. 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.

3.2 FABRIC PERFORMANCE

3.2.1 Materials manufactured to this Specification shall also meet the requirements contained in WSS-M8P27-A1/latest.

3.2.2 Materials manufactured to this Specification may also meet the following applicable specifications:

- Headlining Formed Performance: WSS-M15P27- G/latest
- IP and Soft Interior Assembly Performance: WSS-M8P27-A1/latest.
- Sun visor Assembly Performance: WSS-M98P3-B/latest.
- 10% Transmittance Fixed Tinted Glass Sunshade: WSS-M5H33-B
- 0% Transmittance Moonroof/Sunroof : WSS-M5H34-B

3.3 APPEARANCE

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

3.4 VEHICLE INTERIOR ENVIRONMENTAL PERFORMANCE

Materials used in interior applications must meet the requirements outlined in WSS-M99P2222-D1/latest.

3.5 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.

Date	Action	Revisions	Rev 00
2016 05 24	Released		



Documents

C. Zhang AP Document Sharing Hub

**3.6 FABRIC CONSTRUCTION****3.6.1 Fabric Weight**
(FLTM BN 106-01)

Fiber	218-258 g/m ²
Impregnated Latex	5-10 g/m ²
Total	223-268 g/m ²

3.7 COMPOSITION
(ASTM D629)

3.7.1 Fabric 100% polyester

3.7.2 Thickness 1.9 – 2.4 mm
(SAE J882)

3.8 YARN CONSTRUCTION
(ASTM D1244)

Fiber Description and Construction 3.3-4.5dtex Polyester

3.9 METHOD OF DYEING

Solution Dyed

3.10 STRENGTH PROPERTIES

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

3.10.2 Ultraviolet Deterioration Retained Breaking Strength
(FLTM BO 116-01, ASTM D5034
Grab Method, 300 mm/min speed
Average of 5 samples in each direction)

Headliner application 225.6 kJ/m² 250N min

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 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 or Regional duplication, each regional location of the supplier for this specification must provide a Construction package and be approved to meet this specification.

4.2 If yarn is locally sourced it must meet the above fabric construction, composition and yarn construction.

4.3 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