



**FABRIC, CHILTERN II PATTERN, NON-WOVEN,
230 g/m², 100% VIRGIN**

WSS-M5H44-A5

1. SCOPE

The material defined is a Chiltern pattern needled non-woven polyester face fabric. Material conforming to WSS-M5H44-A5 is 100% virgin yarn.

2. APPLICATION

This specification was released originally for material used as an interior trim fabric for the Figo MY2018 and Ecosport MY2017 headliner.

2.1 LIMITATIONS This specification only applies to light colors, which requires the oil and water repellant coating for soil resistance.

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 This specification is based on virgin materials.

3.3 FABRIC PERFORMANCE

In addition to the requirements listed herein, the fabric shall meet all requirements of WSS-M8P27-A1/latest as applicable.

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

- Headlining Formed Performance: WSS-M15P27-G/latest
- IP and Soft Interior Assembly Performance: WSS-M15P45-C/latest
- Sun Visor Assembly Performance: WSS-M98P3-C/latest
- 0% Transmittance Moonroof/Sunroof: WSS-M5H34-B1/latest

3.4 APPEARANCE

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

3.5 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.

Date	Action	Revisions	Rev. 0
2017 02 27	Released		



Documents

L. Wang AP
Document Sharing Hub



3.6 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.

3.7 FABRIC CONSTRUCTION

3.7.1 Fabric Composition (ASTM D629)

Fabric	100% Polyester
Oil and Water Repellent Coating	Fluorocarbon

3.7.2 Fabric Weight, +/-10 % tolerance (FLTM BN 106-01)

Fiber	220 g/m ²
Oil and Water Repellent coating	10 g/m ²
Total	230 g/m ²

3.7.3 Thickness (SAE J882)

2.0 - 2.5 mm

3.7.4 Yarn Construction (ASTM D1244)

6.67 Dtex

3.8 FABRIC PROPERTIES

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

300 N min

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

3.8.2.1 Retained Breaking Strength (ASTM D5034 Grab Method, 300 mm/min speed Average of 5 samples in each direction)	250 N min
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3.9 METHOD OF DYEING

Solution Dyed

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. 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.