FABRIC, CHILTERN II PATTERN, NON-WOVEN, 246 g/m^2, 100% VIRGIN — **WSS-M5H44-A1**

FABRIC, CHILTERN II PATTERN, NON-WOVEN, 210 g/m^2, 100% VIRGIN — **WSS-M5H44-A2**

FABRIC, CHILTERN II PATTERN, NON-WOVEN, 230 g/m^2, RECYCLED PIR/PCR CONTENT — **WRS-M5H44-A3**

FABRIC, CHILTERN II PATTERN, NON WOVEN, 220 g/m^2, 100% VIRGIN — **WSS-M5H44-A4**

1. SCOPE

The material defined by this specification is a Chiltern II pattern needled non-woven polyester face fabric. Material conforming to WSS-M5H44-A1/A2/A4 is 100% virgin yarn. Material conforming to WRS-M5H44-A3 is made of 92% min recycled yarn.

2. APPLICATION

WSS-M5H44-A1- This specification was released originally for material used as an interior trim fabric for Everest 2015 MY for headliner component.

WSS-M5H44-A2 - This specification was released originally for material used as an interior trim fabric for Ka 2018 MY for headliner component.

WRS-M5H44-A3 - This specification was released originally for material used as an interior trim fabric for Ranger MY15 and MY18 for headliner component.

WSS-M5H44-A4 - This specification was released originally for material used as an interior trim fabric for Ranger MY15 and MY18 for headliner component.

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-M5H44-A1/A2/A4. This specification is based on virgin materials.
WRS-M5H44-A3 This specification is based on 92% min recycled 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.

Date	Action	Revisions	Rev. 2
2017 01 06	Released A3, A4	Revised thickness in A2	L. Wang, AP
2016 09 22	Released A2		M. Souza, SA
2016 02 18	Released A1		L. Wang, AP

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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.

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

		A1	A2	A3	A4
3.7.1 (ASTM D629)	Fabric Composition				
	Fabric	100% PET	100% PET	100% PET	100% PET
3.7.2	Fabric Weight, -/+10 % tolerance (FLTM BN 106-01) g/m^2	246	210	230	220
3.7.3	Thickness, mm (SAE J882)	1.9 - 2.4	1.5 – 2.1	2.2 - 2.6	1.5 – 2.3
3.7.4	Yarn Construction (ASTM D1244)	3.3-4.5 Dtex	3.3 Dtex	3.3-4.5dtex	3.3-4.5dtex

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

3.9 METHOD OF DYEING

Solution Dyed

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