



**FABRIC, CALDER PATTERN, FLAT WOVEN,
RECYCLED, PIR/PCR CONTENT**

WRS-M1H1158-A20

**FABRIC,CALDER PATTERN, FLAT WOVEN,
RECYCLED, PIR/PCR CONTENT WITH BACKCOATING**

WRS-M1H1158-A22

1. SCOPE

The materials defined by these specifications is a woven dobby polyester face fabric made from 100% virgin yarn or with a minimum of 25% PIR/PCR (Post industrial/post consumer) recycled yarn.

2. APPLICATION

WRS-M1H1158-A20 specification was released originally for material as an interior trim fabric for S-Max and Galaxy 2014 MY seat insert. The fabric was originally approved as tri-laminated.

WRS-M1H1158-A22 specification was released originally for material used as an interior trim fabric for 2015 MY Mustang seat insert. The fabric was originally approved as back-coated with foam.

2.1 LIMITATIONS

Calder is to be tested for flammability as a fabric/foam composite not as flat stock. Calder can only be used as a laminated composite (fabric/foam).

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 APPEARANCE

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

3.3 FABRIC PERFORMANCE

In addition to the requirements listed herein, the fabric shall meet all requirements of WSS-M8P18-B1/B2/B3/B4/latest as applicable.

3.4 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.

3.5 CONDITIONING AND TEST CONDITIONS

Date	Action	Revisions	Rev. 0
2016 10 17	Released		



Documents

D. Murtonen, NA
Document Sharing Hub



ENGINEERING MATERIAL SPECIFICATION

WSS-M1H1158-A20

WRS-M1H1158-A22

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.

3.6 FABRIC CONSTRUCTION

3.6.1 Fabric Count, +/-10 % tolerance (ASTM D3775)

	A20	A22
Warp	338 / 10 cm	338/10cm
Fill	220 / 10 cm	210/10cm

3.6.2 Fabric Weight, +/-5 % tolerance (FLTM BN 106-01)

	A20	A22
Face Fabric	328 g/m ²	328 g/m ²
Backcoating	0 g/m ²	29 g/m ²
Total Weight	357 g/m ²	328 g/m ²

3.7 COMPOSITION (ASTM D629)

	A20	A22
Fabric	100% polyester	100% polyester
Backcoating	No Backcoat	EVA

3.8 YARN CONSTRUCTION (ASTM D1244)

	A20	A22
Warp	167 Dtex f48 (polyester texturized)	167 Dtex f36 (polyester texturized)

Fill	540 Dtex f144 (100% recycled, textured polyester)	167 Dtex f34 , (100% recycled textured polyester)
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3.9 RECYCLED CONTENT

Recycled yarn must contain a minimum of 25% recycled content PIR/PCR (Postindustrial/post consumer) as defined by WRS-M99P42-A2. The remaining portion of the material can come from virgin sources. Refer to the Approved Source List (ASL), for specific regional recycled levels for this material.

3.10 METHOD OF DYEING

Solution/Piece dyed

3.11 FINISHED OPERATIONS

Wash, dye, dry, tenter (A1 backcoat), resin top coat, framing
Any changes to the above process must be approved by Materials Engineering.

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