



FABRIC, WILLOW EMBOSSED BELGRANO, WARP KNIT, RECYCLED PIR/PCR CONTENT WITH SOIL REPELLANT

WRS-M1H1313-A21

1. SCOPE

The material defined by this specification is a warp knit polyester face fabric made from a minimum of 25% PIR/PCR (Post industrial/post consumer) recycled yarn. Willow is the embossment pattern on the Belgrano fabric base.

2. APPLICATION

This specification was released originally for material used as an interior trim fabric for 2020 MY Explorer seat insert. The fabric was originally approved as tri-laminate with foam and a backing scrim.

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 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 FABRIC CONSTRUCTION

3.5.1 Fabric Count, +/-5 % tolerance
(ASTM D3775)

Wales	120 / 10 cm
Courses	190 / 10 cm

Date	Action	Revisions	Rev. 0
2017 12 13	Released		



Documents

Document Sharing Hub

**3.5.2 Fabric Components Weight, +/-5 % tolerance
(FLTM BN 106-01)**

Face Fabric	295 g/m ²
Foam (6mm final thickness, 2.5lb/ft ³)	280 g/m ²
Knit Scrim	52 g/m ²
Total Weight (without embossed)	625 g/m ²

**3.5.3 Fabric Stretch and Set
(SAE J855)**

	Stretch	Set
Warp	16% min	2% max
Fill	16% min	2% max

**3.6 COMPOSITION
(ASTM D629)**

Face Fabric 100% polyester

**3.7 YARN CONSTRUCTION
(ASTM D1244)**

Face (A) 75 Den f36
(Polyester, round, semi dull,
fully drawn/flat)

Face (B) 100 Den f48
(Polyester, round, semi dull,
false twist)

Back 75 Den f36
(Recycled polyester, round,
semi dull, fully drawn/flat)

3.8 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.

3.9 METHOD OF DYEING

Piece dyed

3.10 FINISHED OPERATIONS

Piece Dyeing, Heat Setting with SR/Lubricant,
Lamination, Piece Cutting, Embossing

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.