FABRIC, SPORTSTER PATTERN, FLAT WOVEN, RECYCLED PIR/PCR CONTENT WITH SOIL REPELLANT **WRS-M1H1248-A21**

1. SCOPE

The material defined by this specification is a flat woven polyester face fabric containing a minimum of 25% PIR/PCR (Post industrial/post consumer) recycled yarn.

2. APPLICATION

This specification was released originally for material used as an interior trim fabric for Ecosport 2018 MY seat insert. The fabric was originally approved as tri-laminated 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 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

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 Warp/Fill per 10 cm tolerance (ASTM D3775)

Warp	330 / 10 cm
Fill	200 / 10 cm

Date	Action	Revisions	Rev. 0
2016 10 17	Released		M. Souza SA

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3.6.2	Fabric Weight, -/+10 % tolerance (FLTM BN 106-01)	311 g/m^2

3.7 COMPOSITION
(ASTM D629)

Fabric	100% polyester

3.8 YARN CONSTRUCTION
(ASTM D1244)

Warp	68%	3x167 Dtex f48 (semi dull, round, polyester, DTY)
Fill	30%	540 Dtex f144 (semi dull, round, polyester, ATY)
Back	2%	3x167 Dtex f34 (semi dull, round, polyester, DTY)

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. Virgin yarn contains 100% virgin material.

3.10 METHOD OF DYEING Solution Dyed

3.11 FINISHED OPERATIONS Washing, Heat Setting with PU+SR, Lamination

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 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. The fabric must also meet the requirements of WSS-M8P18-B1/B2/B3/B4/latest.

4.3 Global strategy for this fabric is to use tri-laminate/foam & scrim construction in all regions.

4.4 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 representative of the test facility, demonstrating full compliance with all the requirements of the Material Specification. Tested material samples must be available for review upon request and kept for a minimum of one year. Upon request, the supplier will review the associated quality control documents (Process Failure Mode and Effects Analysis, Control Plans, Certification, Testing) with Ford.

Documents
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