**CARPET, RECYCLED POLYESTER, NON WOVEN, FLAT NEEDLED, POLYETHYLENE MOLDABLE BACKING, 240 g/m$^2$ (7 oz) NOMINAL FACE** **WRS-M3H176-A1**

## 1. SCOPE

The materials defined by this specification are flat needle, non-woven carpets of good quality and uniform composition. The face fiber is 100% post consumer polyester and it is back coated with the appropriate weight of Polyethylene.

## 2. APPLICATION

This specification was originally released for Ford Ecosport MY18 Package Tray.

## 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 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.

### 3.3 PERFORMANCE CRITERIA

3.3.1 In addition to the requirements listed herein, the end-item carpet shall be tested to WSS-M15P6-E and any additional SDS requirements. The details for each of the supplier specific constructions shall be documented in the supplement attached and uploaded into the scanned data package.

3.3.2 Vehicle Interior Environment Quality Materials/Component Performance Requirements

Materials used in interior applications must meet the requirements outlined in WSS-M99P2222-D1/ latest. Data must be provided at the appropriate program milestone.

3.3.3 Recycled Content
This specification must contain 100% recycled content as defined by WRSM99P42-A2 (Textile Materials, Identification of Recycled Content).

### 3.4 SAMPLE SELECTION

All evaluations shall be conducted on test specimens taken from finished roll goods (including substrate layers) prior to any subsequent operations, such as molding.

| Date | Action | Revisions | Rev 00 |
|---|---|---|---|
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| 2017 01 04 | Released | | L. Wu, APA |


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**3.5 APPEARANCE**

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

**3.6 COMPOSITION**

| | | |
|---|---|---|
| 3.6.1 | Face Fiber (ASTM D276) | 100% PCR Polyester |
| 3.6.2 | Primary Backing (ASTM D276) | Low Density Polyethylene (PE Powder) |

**3.7 METHOD OF DYEING** Solution dyed

**3.8 CONSTRUCTION**

| | | |
|---|---|---|
| 3.8.1 | Fiber Size and Description (ASTM D 1244) | 6 Denier |

**3.9 FACE FIBER THICKNESS*** (ISO 1765) 1.5+/-0.3 mm

*Face thickness prior to molding.

**3.10 WEIGHT**

| | | |
|---|---|---|
| 3.10.1 | Face Fiber (ASTM D5848) | (216 - 264) g/m$^2$<br>(6.4 – 7.8) oz |
| 3.10.2 | Primary Backing (ASTM D5848) | (36 - 44) g/m$^2$<br>(1.1 – 1.3) oz |

## 4. GENERAL INFORMATION

This 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 DRAWING CALL OUT**

The following shall be called out on the Engineering drawing to correctly designate the approved material.

WRS-M3H176-A1
Supplier Name and Product Code (As it appears on the Approved Source Listing)
WSS-M15P6-E

**4.2 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.

**4.3 SUPPLIER'S ONGOING RESPONSIBILITY**

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