



ENGINEERING MATERIAL SPECIFICATION

**CARPET, RECYCLED POLYESTER, NON WOVEN,
RANDOM VELOUR, NEEDLED, FUSED BACK 542 g/m² (16 oz)**

WRS-M3H160-A1

**CARPET, RECYCLED POLYESTER, NON WOVEN,
RANDOM VELOUR, NEEDLED, FUSED BACK 542 g/m² (16 oz) ,
BARRIER FILM**

WRS-M3H160-A2

1. SCOPE

The material defined by this specification is a needled random velour non woven carpet of good quality and uniform composition. The carpet back is fused for improved abrasion resistance.

2. APPLICATION

The A1 specification was released for rear trim applications in SUV's. A2 was released specific to back injection molded applications, such as rear side trim components of SUV's.

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 floor carpet shall be tested to WSS-M8P16-B and any additional SDS requirements. The details for each of the supplier's specific construction 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 included at the appropriate program milestone.

Date	Action	Revisions	Rev 00
2016 05 18	Released		

Controlled document at www.MATS.ford.com

Copyright © 2016, Ford Global Technologies, Inc.

Documents
Page 1 of 5
Document Sharing Hub



3.3.3 Recycled Content

This specification must contain a minimum of 60% recycled content as defined by WRS-M99P42-A2 (*Textile Materials, Identification of Recycled Content*).

3.4 SAMPLE SELECTION

All evaluations shall be conducted on test specimens taken from finished roll goods prior to any subsequent operations, such as reheating or molding.

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)	85% Polyester UV Resistant/ 60% recycled content
3.6.2	Binder Fiber (ASTM D276)	15% Low Melt Polyester
3.6.3	Film (WRS-M3H160-A2 Only) (ASTM D276)	Polypropylene

3.7 METHOD OF DYEING

Solution dyed

3.8 CONSTRUCTION

3.8.1	Face Fiber (ASTM D 1244)	8 Denier Nominal
3.8.2	Binder Fiber (ASTM D 1244)	4 Denier Nominal

Denier range approved for each supplier's construction can be found in the scanned data package.

3.9 THICKNESS

3.9.1	Face Thickness (ISO 1765)	5.6 +/- 0.5 mm
3.9.2	Face Thickness with Film (WRS-M3H160-A2 Only) (ISO 1765)	4.6 +/- 0.5 mm

3.10 WEIGHT

3.10.1	Face Fiber (ASTM D5848)	461 g/m ² 13.6(oz)
--------	----------------------------	----------------------------------