



UNFINISHED TRIM, NON WOVEN, NEEDLED, POLYETHYLENE TEREPHTHALATE (PET) COMPOSITE, 25% RECYCLED MATERIAL BY WEIGHT, 980 g/m²

WRS-M3H207-A1

1. SCOPE

The materials defined by these specifications are needled, nonwoven polyethylene terephthalate (PET) fibers, with a blend of virgin and recycled fibers.

2. APPLICATION

These specifications were released originally for acoustic under-engine shields, acoustic underbody aero/NVH shields, and acoustic wheel arch/well liners.

2.1 LIMITATIONS

These materials are not to be considered for use on Class A surfaces.

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 acoustic underbody shields and wheel arch liners shall be tested to WSS-M99P32-E2/E3/E4/E5 (or latest) and any additional SDS requirements. The details for each of the suppliers' specific construction shall be documented in the supplement attached and uploaded into the scanned data package.

3.3.2 Recycled Content

This specification must contain 25% minimum recycled content as defined by WRS-M99P42-A2 (*Textile Materials, Identification of Recycled Content*).

Date	Action	Revisions	Rev 00
2017 12 14	Released		

Controlled document at www.MATS.ford.com

Copyright © 2017, Ford Global Technologies, Inc.



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

Color shall be dark grey or black for all Wheel Arch / Wheel Well Liners (E2/E3) visible surfaces. White is not preferred for other components, a dark heather color is acceptable. Pigment is added in the extrusion process.

3.6 COMPOSITION

3.6.1	Face Spunbond (ASTM D276)	Polyester 35-55% recycled
3.6.2	Binder Fiber (ASTM D276)	Polyester 0% recycled
3.6.3	Core (ASTM D276)	Polyester 60-100% recycled
3.6.4	Backing Spunbond (ASTM D276)	Polyester 35-55% recycled

3.7 CONSTRUCTION

3.7.1	Face Spunbond (ASTM D1244)	6 – 13 Denier
3.7.2	Binder Fiber (ASTM D1244)	2 - 6 Denier
3.7.3	Core (ASTM D1244)	3 - 7 Denier
3.7.4	Backing Spunbond (ASTM D1244)	6 - 13 Denier

3.8 TOTAL THICKNESS (ISO 1765)

6.4mm +/- 0.6 mm

3.9 WEIGHT

3.9.1	Face Spunbond (ASTM D5848)	60 - 100 g/m ²
3.9.2	Binder Fiber (ASTM D5848)	300 – 500 g/m ²