



ENGINEERING MATERIAL SPECIFICATION

Material Name

Specification Number

LAMINATE, POLYETHYLENE (PE) FOAM,
RECYCLED/POLYETHYLENE (PE) SHEET

WSK-M98D26-A

1. SCOPE

The material defined by this specification is a laminate of closed cell polyethylene foam made of recycled chips, heat fused on a polyethylene sheet by punching through heated needles. The polyethylene sheet acts as processing aid and remains on the foam.

2. APPLICATION

This specification was released originally for material used as boot floor filler below the boot mat.

3. REQUIREMENTS

3.1 STATISTICAL PROCESS

Suppliers must conform to the requirements of Ford Quality System Standard Q-101. A mutually acceptable Control Plan as described therein is required for material/source approval. Appropriate statistical tools must be used to analyze process/product data so that variation in the final product is continuously reduced.

3.2 INFRARED SPECTROPHOTOMETRY AND/OR THERMAL ANALYSIS

Ford Motor Company, at its option, may conduct infrared and/or thermal analysis of material/parts supplied to this specification. The IR spectra and thermograms established for initial approval shall constitute the reference standard and shall be kept on file at the designated material laboratory. All samples shall produce IR spectra and thermograms that correspond to the reference standard when tested under the same conditions.

3.3 CONDITIONING AND TEST CONDITIONS

All test values indicated herein are based on material conditioned in a controlled atmosphere of 23 +/- 2 C and 50 +/- 5 % relative humidity for not less than 24 h prior to testing and tested under the same conditions unless otherwise specified.

Date	Release No.	Release/Revision	
1991-11-04	EP00E01089490000	Released	K. Gerhards

WP 3948-a

Page 1 of 4

9009160 0007859 1T2



3.4 POLYETHYLENE FOAM

Tests shall be carried out on specimens with the polyethylene sheet attached.

- | | | |
|-------|---|-----------------------|
| 3.4.1 | Density, max
(ISO 845/ASTM D 3574, Test A) | 100 kg/m ³ |
| 3.4.2 | Compression Set, max
(ISO 1856, Method A/ASTM D 3574,
Test D, ct calculation, 22 h
at 23 C, 50 % deflection,
3 specimens, minimum) | 40 % |
| 3.4.3 | Compression Deflection Stress,min
(ISO 3386/1 at 25 % compression,
specimen size 100 x 100 x 30 mm,
test speed 100 +/- 20 mm/minute,
evaluation of the 1st compression
plot) | 25 kPa |

3.5 LAMINATE

- 3.5.1 Dimensional Stability, max

WMD	- 5 %
AMD	- 5 %

Test Method: A specimen approx. 300 x 300 mm in size shall be placed in a mechanical convection oven maintained at 90 +/- 2 C for 3 h. Dimensional changes shall be measured after cooling down to room temperature.

- 3.5.2 Odor, max
-
- (FLTM BO 131-01/SAE J1351) Rating 2

- 3.5.3 Flammability
-
- (ISO 3795)

Burn Rate, max 100 mm/minute

The specimen size required for material approval is 355 x 100 x 12.7 +/- 0.1 mm with natural surface.