



THERMOPLASTIC ELASTOMER, FLOOR COVERING, GRAINED, SHAPED,

WSS-M99D63-B1

1. SCOPE

The Material defined by this specification is an interior floor covering manufactured from modified thermoplastic elastomer of good quality and uniform construction, suitable for flat and shaped parts. The surface layer may be composed of an alternative thermoplastic material.

2. APPLICATION

This specification was released originally for material used as a floor covering in trucks, vans and/or as specified on the engineering drawing.

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 Materials approved to this specification must meet all of the requirements in this specification, the performance specification WSS-M9P13-A1 and all applicable functional requirements. The values for each suppliers material and performance testing will be uploaded and maintained in the construction package for all new materials.

3.3.2 See Table 1 for sample size and testing required.

3.4 APPEARANCE

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

3.5 CONSTRUCTION

3.5.1 Density Report Value, Kg/m³
(ASTM D 792 method A-1)

3.5.2 Thickness Report Value, mm
(ASTM D 3767)

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If two layer system is used each layer must be reported in the ASL remarks.

3.5.3 Material Type Report Type

The Type will be reported in the ASL remarks.

3.5.4 Weight Report Value, g/m²
(BN 106-01)

3.6 MATERIAL PROPERTIES

3.6.1 Hardness 84 +/- 10 Durometer A
(ISO 868/ASTM D 2240,
except test ungrained
material)

3.6.2 Tensile Strength 3.0 MPa, min
(ISO 37, Type 1, ASTM D 412 Method A, Die A
Crosshead speed 250 mm/min)

3.6.3 Elongation 220%, min.
(ISO 37, Type 1, ASTM D 412 Method A, Die A
Crosshead speed 250 mm/min)

3.7 AGED MATERIAL PROPERTIES

Age samples for 7 days at 80 +/- 2.0 °C, and run the following tests.

3.7.1 Hardness +/- 10% change from original
(ISO 868/ASTM D 2240,
except test ungrained
material)

3.7.2 Tensile Strength +/-15% of original
(ISO 37, Type 1, ASTM D 412 Method A, Die A
Crosshead speed 250 mm/min)

3.7.3 Elongation +/-15% of original
(ISO 37, Type 1, ASTM D 412 Method A, Die A
Crosshead speed 250 mm/min)

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 RECYCLING CODE (ISO 1043/11469)

Reference ISO document for recycling codes for the approved material being supplied.

Examples include but are not limited to:

> E/P <
>PVC<