



FABRIC, VINYL COATED (PVC), SUPPORTED, ANTI-SQUEAK, GAP HIDER MATERIAL

WSS-M2F217-A1

1. SCOPE

The material defined by this specification is a vinyl coated fabric consisting of polyvinyl chloride film with anti-squeak coating laminated to a knit fabric.

2. APPLICATION

This specification was released originally for material used as a flexible steering wheel gap hider material. Any other uses for this vinyl construction must be approved by the responsible Materials Engineer.

2.1 LIMITATIONS

This material is not to be used for seating applications.

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 APPEARANCE

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

3.3 COMPOSITION

3.3.1 Face Material	PVC
3.3.2 Supporting Fabric	Polyester Knit
3.3.3 Total Weight (ASTM D751)	590 g/m ² min
3.3.4 Total Thickness (ASTM D751)	Report, mm

3.4 ADHESION

3.4.1 Coating Adhesion (FLTM BI 106-01, Method C)	No removal of surface coating or vinyl film
3.4.2 Film to Backing (FLTM BN 151-05)	
WMD	0.5 N/mm min
AMD	0.5 N/mm min

Date	Action	Revisions	Rev. 0
2017 02 16	Released		



**3.5 TRAPEZOIDAL TEAR**
(ASTM D751)

WMD	90 N min
AMD	90 N min

3.6 BREAKING STRENGTH
(ASTM D751, Procedure A – Grab test Method)

WMD	400 N min
AMD	350 N min

3.7 STRETCH AND SET
(SAE J855)

<u>Stretch</u>	
WMD	10% min
AMD	20% min

<u>Set</u>	
WMD	Report
AMD	Report

3.8 RESISTANCE TO BALLY FLEX
(FLTM BN 162-01)

Test three specimens in each direction to the number of cycles specified below. Retain tested specimens and submit for evaluation by Materials Engineering.

Original, 100,000 cycles	Rating 1 max
After Heat Aging per para 3.10, 30,000 cycles	Rating 1 max

3.9 RESISTANCE TO CURLING

The test specimen must not raise itself at any point by more than 13 mm unless otherwise agreed when tested per the following test method: Die cut four test specimens 100 x 100 mm in size across the entire width of the material. Two of the four test specimens shall be taken at a distance of 25 mm from both selvages of the material roll. Place the test specimens immediately on a smooth flat supporting surface, with the face side upward and using a suitable scale, measure the maximum distances between the supporting surface and the upper surface of the test specimens. After 15 minutes, repeat the same measurements on the points which show the greatest degree of upward curling.

3.10 RESISTANCE TO HEAT AGING
(7 days at 100 +/- 2 °C, ISO 105-A02 /
AATCC Evaluation Procedure 1)

Rating 4 min

After exposure, the material shall show no evidence of tackiness, spewing, excessive loss of grain or exhibit staining, color tone change or change in hue in excess of required AATCC rating. Any spotty or non-uniform staining or discoloration shall be cause for rejection.

If the rating is less than 4, then the material must be tested and found to meet the requirements of 3.10.1.