

**FABRIC, SPACER KNITTED FABRIC, WIND DEFLECTOR
100% VIRGIN****WSS-M5H31-B1****1. SCOPE**

The material defined by this specification is a spacer knitted polyester fabric, 4 bars, 32 gauges made from 100% virgin yarn.

2. APPLICATION

This specification was released originally as a wind deflector material.

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 In addition to the requirements listed herein, this material shall meet the SDS requirements of panoramic moon roof as applicable ([WSS-M8P23-A](#)/latest). When used on the intended application, the material must be capable of performing adequately under all production and service conditions.

3.3 APPEARANCE

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

3.4 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.

3.5 THICKNESS 1.5 mm +/- 10%
(ASTM D1777)

3.6 FABRIC CONSTRUCTION

3.6.1 Fabric Stitch Count, +/- 10 % tolerance
(ASTM D3887)

Wales 125 / 10 cm
Courses 210 / 10 cm

3.6.2 Fabric Weight
(FLTM BN 106-01)

Fabric 160 g/m² +/-10 %

Date	Action	Revisions	Rev. 01
2017 06 27	Editorial	Corrected footer	A. Collins, NA
2016 12 04	Released		Rabideau, NA

**3.7 COMPOSITION**
(ASTM D629)

Fabric 100% Polyester

3.8 YARN CONSTRUCTION
(ASTM D1244)

Face 5.0 texf24

Middle 3.3 texf1 Monofilament

Back 0.56 texf24

3.9 METHOD OF DYEING

Solution Dyed

3.10 FINISHED OPERATIONS

Flame Retardant

3.11 RESISTANCE TO MILDEW

(7 days at 98 +/- 2% relative humidity and 38 +/- 2 °C,
specimen size 100 mm x 100 mm)

Remove the part from the cabinet and evaluate (smell the sample) immediately. The part shall exhibit no visible evidence of mildew growth and / or objectionable odor after the 7 day exposure. In addition, part must not separate layers or show any other visual deterioration.

3.12 FOGGING

(SAE J1756, 3 h at 100 °C heating, 21 °C
Cooling plate, post testing conditioning 16 h)

Fog Number 70 min

Formation of clear film, droplets or crystals is cause for rejection

All materials, parts and components should be stored in an open environment for 14-28 days after manufacture, and then must be bagged in sealed polyethylene (PE) or PE coated aluminum bags for shipping. Parts for testing must be labelled with supplier and date of manufacture.

3.13 FLAMMABILITY
(ISO 3795)

Burn Rate 100 mm/minute max

3.14 TENSILE STRENGTH

(ASTM D5034, grab method, 300 mm/min)

Warp 350 N min

Weft 350 N min

3.15 RESISTANCE TO INTERIOR WEATHERING

(FLTM BO 116-01, sample size 60 x 150 mm minimum,
AATCC Evaluation Procedure 1)

225.6 kJ/m² Exposure Rating 4 min

The material must not exhibit staining, color tone change, change in hue, or other deterioration after exposure.