



FABRIC, VINYL COATED, WOVEN, INTERIOR TONNEAU COVER

WSS-M2F218-A1

1. SCOPE

The material defined by this specification is a 3 layer composite comprised of a PVC top layer, a woven polyester middle layer, and a bottom PVC layer.

2. APPLICATION

This specification was released originally for material used as a tonneau shade cover for the interior load compartment.

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.

In addition to the requirements listed herein, this material shall meet all requirements of the WSS-M8P29-A/Latest, *Performance, Interior Tonneau/Cargo Shade Assembly* specification and of any applicable SDS requirements.

3.2 VEHICLE INTERIOR ENVIRONMENTAL PERFORMANCE

Materials used in interior applications must meet the requirements outlined in WSS-M99P2222-F1/latest, *Performance, Vehicle Interior Environmental Quality Material/Component Requirements*. Data must be included in material submission package.

3.3 APPEARANCE (FLTM BI 109-01)

The color, pattern, and finish shall match the approved Design Center master sample, or shall be as specified on the engineering drawing.

3.4 WEIGHT (FLTM BN 106-01)

Fabric	100-150 g/cm ²
Top Vinyl Coating	200-250 g/cm ²
Bottom Vinyl Coating	200-250 g/cm ²
Total	500-650 g/cm ²

3.5 THICKNESS

0.50-0.60 mm

Date	Action	Revisions	Rev. 00
2017 05 23	Released		



**3.6 CONSTRUCTION**

3.6.1	Fabric (ASTM D276/ASTM D629)	100% Polyester
3.6.1.1	Construction of finished material (ASTM D3775)	
	Ends	70 per 10 cm min
	Picks	65 per 10 cm min
3.6.2	Top and Bottom Surfaces	Polyvinyl Chloride

3.7 TENSILE STRENGTH

(ASTM D5034, grab method)

	Warp	800 N min
	Weft	800 N min
3.7.1	Elongation at Break	
	Warp	40 % max
	Weft	40 % max

3.8 TEAR STRENGTH, (Trouser)

(ISO 4674, Method A2)

	Across warp	40 N min
	Across weft	45 N min

3.9 STIFFNESS(ASTM D747, direct reading at 60 °, Span
10 mm, Load 150 cmg, 25 x 50 mm specimen)

	Warp	10 - 25
	Weft	10 - 25

Note: Specimens to be tested face (grain) side down.

3.10 CURL TEST

Test Method:

Die cut across the width of the material four test specimens 100 x 100 mm in size with two of these taken at a distance of 25 mm from the selvages of the roll. Place each specimen immediately on a smooth flat supporting surface (face side up) and measure the maximum distances between the supporting surfaces and the underside of the specimens. After 15 minutes, repeat the same measurement and report the greatest degree of curl.

Requirement:

The test specimen must not raise itself at any point more than 10 mm when tested as follows: