



PERFORMANCE, EXTERIOR NON-FOLD TONNEAU

WSS-M8P26-A3

1. SCOPE

This specification defines the standard performance requirements for hard non-flexible materials used in exterior tonneau cover applications.

2. APPLICATION

This specification was released originally for materials used in the F150 exterior tonneau cover. In addition, other components used in the tonneau cover system must meet the following requirements if present in the system.

- Exterior rigid painted parts must meet WSS-M2P180-D/latest.
- Labels must meet WSS-M99P41-A10/A72/latest.
- Exterior plastic parts must meet WSS-M98P13-D/latest.

For component types other than those classified above, please contact Materials Engineering for direction on material call-outs.

3. REQUIREMENTS

3.1 STANDARD REQUIREMENTS FOR PRODUCTION MATERIALS

Material suppliers and part producers must conform to the Company's Standard Requirements For Production Materials (WSS-M99P1111-A or latest).

3.2 SAMPLE SELECTION

All evaluations shall be conducted on test specimens taken from production representative exterior tonneau assemblies or parts.

3.3 APPEARANCE (FLTM BI 109-01)

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

3.4 COMPOSITION

Construction as specified on the Engineering Drawing.

Non-Fold – Thermoplastic Polyolefin

3.4.1 Density 1.08-1.13 g/cm³
(ISO 1183, Method A)

3.4.2 Finished Thickness 1.40 mm min
(ASTM D751)

Date	Action	Revisions	Rev. 0
2014 11 25	Released		

**3.5 FLAMMABILITY**

(ISO 3795/SAE J369)

Burn Rate

100 mm/minute max

3.6 RESISTANCE PROPERTIES**3.6.1 Horizontal Fluid Spotting Resistance**

(FLTM BI 113-01, AATCC

Evaluation Procedure 2 Gasoline Only)

Rating 4-5 min

The material shall meet the specified Grey Scale rating. In addition, no surface distortion dulling, or permanent softening permitted.

3.6.2 Resistance to Heat Aging

(ISO 105-A02/AATCC Evaluation Procedure 1)

Rating 4 min

Test Procedure: The production level part must be tested. Expose the test sample to 92 +/- 2 °C in a mechanical convection oven for 16 hrs. After heat exposure, allow samples to cool to 23 +/- 2 °C for a minimum of 1 hour prior to evaluation.

Acceptance Criteria:

The material shall meet the specified Grey Scale rating. In addition, no color tone change (e.g. pink) is allowed, no visible cracks, blisters, softening, dulling, or evidence of material degradation when observed with the unaided eye from a distance of 300 +/- 30 mm.

3.6.3 Resistance to Scratch and Mar

(FLTM BO 162-01, 1.0 +/- 0.1 mm steel ball at 7.0 N, 6.0 N, 4.5 N, 3.0 N and 2.0 N)

Load: 2 N

Scratch:

Rating 2 max

Marring:

Rating 2 max

Load: 7 N

Whitening/Color Change:

Rating 1 max

3.6.4 Resistance to Water and Soap Spotting

(FLTM BI 113-01, AATCC

Evaluation Procedure 2)

Rating 4-5 min

The material shall meet the specified Grey Scale rating, in addition, no surface distortion or permanent softening permitted.

3.6.5 Weathering Resistance

(ASTM D7869 or SAE J2527

ISO-A02/AATCC Evaluation Procedure 1)

ASTM D7869 (preferred)	SAE J2527 Boro/Boro	Testing to Complete	Rating
2250 h	3000 h	Fade Resistance	4 min
*3750 h	*6000 h or 2 yr Florida Actual	Fade Resistance	4 min

