



SUN VISOR ASSEMBLY, PERFORMANCE

WSS-M98P3-C

1. SCOPE

This specification defines the performance requirements for sunvisor assemblies.

2. APPLICATION

This specification was released originally for materials used for sun visors. The construction is not defined but may include expanded polypropylene (EPP) with wire frames, or injection molded substrates. The part may be covered with a welded PVC sheet or other polymeric films, knitted or nonwoven fabrics. Engineering drawings may specify the insertion of a mirror and/or heat set printed label.

If present, components used in the sun visor must meet the following requirements:

- Interior Roof System Fabric Performance – WSS-M8P27-A1/latest
- Interior Plastic Parts – WSS-M15P4-F/latest
- Label Performance – WSS-M99P41-A10/A72/latest (applicable labels only)

Note that vanity mirror components will not require approval to a Ford performance specification. They are considered a PIA component with an expectation to meet all assembly requirements outlined in this specification.

2.1 LIMITATIONS

All amorphous materials (such as PC, PC/ABS, ABS, SMA, ASA, PPO) should be evaluated for potential incompatibility with other materials that they may come in contact with per FLTM BO 127-03.

3. REQUIREMENTS

3.1 APPROVED SOURCES

This specification is performance based and does not have approved sources.

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 DV/PV TEST PLAN

PEC/FEC/PV testing must be conducted in compliance with program milestones unless otherwise specified by Ford Engineering. See Table 1 for DV/PV testing. For design changes, see Table 2.

Date	Action	Revisions	Rev. 01
2016 05 02	Editorial	See Summary of Revisions	A. Wagenhals, NA
2016 04 05	Released		A. Wagenhals, FNA

**3.4 FOGGING**

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

Fog Number 70 min

Formation of clear film, droplets or crystals is cause for rejection. Fog evaluation is visual. Microscopic evaluation is used only for further evaluation of oily droplets or crystals.

Sample shall be tested as an assembly if it is 100% bonded. If not 100% bonded, test each component separately.

3.5 ODOR

(FLTM BO 131-03)

Rating 3 max

Sample shall be tested as part of a production assembly composite if it is 100% bonded. If not 100% bonded, test each component separately.

3.6 FLAMMABILITY

(ISO 3795)

Burn Rate 100 mm/minute max

Sample shall be tested as part of a production assembly composite if it is 100% bonded. If not 100% bonded, test each component separately.

3.7 CONSTRUCTION PROPERTIES**3.7.1 Bond Strength (applicable to welded or sewn seams)**

3.7.1.1 Original 50 N min

3.7.1.2 After Environmental Cycling 75% min of original
In para 3.9. value

Test Method: Specimens 15 mm in width and approx. 150 mm in length shall be cut across the bond line and then clamped in the jaws of a tensile machine such that the bond line is centered between the jaws. The maximum breaking strength will be determined using a test speed of 500 mm/min. Report the average of all specimens tested.

3.7.2 Resistance to Mildew

(7 days at 98 +/- 2 % relative humidity and 38 +/-2 °C.)

Test Method

Cut specimens from the thickest section. Specimen size is 200 x 200 mm unless part size is smaller. Expose for 7 days in a humidity cabinet.

Evaluation

Remove the part from the cabinet and evaluate immediately. The part shall exhibit no visible evidence of mildew growth and/or objectionable odor after 7 days exposure.