Material Name

PERFORMANCE REQUIREMENTS, HOOD ASSEMBLY, CONVERTIBLE TOP DUST COVER

Specification Number

WSB-M15P41-A

1. SCOPE

This specification defines the durability and performance requirements of a hood assembly, convertible top dust cover boot. This assembly consists of PVC, scrim, foam, scrim and fabric backing laminate. The materials are combined using adhesives to provide a trim assembly having decorative and/or functional features.

2. APPLICATION

This specification was originally released for the assembly used as a convertible boot cover for the 1995 Mustang. Any other application must be approved by the Material Engineering or Design Engineering activity.

3. REQUIREMENTS

In addition to the requirements listed herein, all tests shall be conducted on finished parts or sections of production assemblies. The trimmed appearance assembly, during or after the test, shall exhibit no visible or objectionable appearance such as:

- Wrinkling
- Distortion
- Blistering
- Delamination
- Blushing, hazing, or milking of the decorative surface

3.1 STATISTICAL PROCESS

Suppliers must conform to the requirements of Ford Quality System Standard Q-101. A mutually acceptable Control Plan as described therein is required for material/source approval. Appropriate statistical tools must be used to analyze process/product data so that variation in the final product is continuously reduced.

3.2 INFRARED SPECTROPHOTOMETRY AND/OR THERMAL ANALYSIS

Ford Motor Company, at its option, may conduct infrared and/or thermal analysis of material/parts supplied to this specification. The IR spectra and thermograms established for initial approval shall constitute the reference standard and shall be kept on file at the designated material laboratory. All samples shall produce IR spectra and thermograms that correspond to the reference standard when tested under the same conditions.

Date	Release No.	Release/Revision
1993 06 15	NB00I10043054257	Released J.D. Salow A.J. Stocki

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3.3 CONDITIONING AND TEST CONDITIONS

All test values indicated herein are based on material conditioned in a controlled atmosphere of 23 +/- 2 C and 50 +/- 5 % relative humidity for not less than 24 h prior to testing and tested under the same conditions unless otherwise specified.

3.4 COLD IMPACT

The assembly shall not show evidence of cracking or breaking following an impact at - 20 C with a 127 mm dia rubber ball weighing 4.5 kg of 60 +/- 5 Durometer "A" (ISO 686/ASTM D 2240).

Test Procedure: Condition the assembly for 5 hours at - 20 C prior to impacting; then immediately (from 8 to 10 s) drop the rubber ball from a 300 mm height on the upper surface of the hood assembly. The top dust cover should be supported on a flat, rigid, surface in contact with all attachments.

3.5 FOLD DURABILITY

The assembly shall remain flexible and not crack upon repeated folding of the assembly after exposure to the following environments:

. Cold	16 h at - 20 C for 10 cycles
. Hot	24 h at 70 C for 490 cycles
. Ambient	20 C for 7000 cycles, tested at temperature

3.6 SAG TEST

24 h test hot and cold cycles from - 20 C to 70 C. Allowable deflection and location will appear on the engineering drawing when specified. (Minimum 10 h hot and 4 h cold.) Top dust cover assembly will be supported as in vehicle.

3.7 COLD/HOT CRUSH TESTS

3.7.1 COLD CRUSH TEST

Place the assembly in the storage bag. Cold soak for 4 h at - 20 +/- 1 C. Drop a 22.5 kg load from 300 mm height. Soak for an additional 8 h with the load on top of the assembly. After the 8 h soak, allow the assembly to return to ambient temperature (20 C) and unfold. The assembly shall not show any visible evidence of cracking or delamination during the test.

3.7.2 Hot Crush Test

Place the assembly in the storage bag. Hot soak for 4 h at 70 +/- 2 C. Drop a 22.5 kg load from 300 mm height. Soak for an additional 8 h with the load on top of the assembly. Remove from hot chamber, then immediately unfold the assembly. The assembly shall not show any visible evidence of cracking or delamination during the test.

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