

TEST METHOD FOR UNITIZED SEAT COVER ASSEMBLIES

Application

This procedure is used to evaluate unitized seat cover components for satisfactory processing through the manufacturing operations and for compatibility of the individual components used in the assembly.

Apparatus Required

Tensile Machine

Shall meet the requirements of ASTM D 76.

Oven

Mechanical convection oven capable of maintaining 102 +/- 3 °C.

Fade-Ometer

Operated as described in SAE J 1885.

Fluorescent Sunlamp Cabinet

See FLTM BO 115-01 for details of the cabinet.

Cold Box

Must be capable of being maintained at - 18 +/- 1 °C.

W Flex Tester

As described in FLTM BN 102-02.

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.

Date	Action	Revisions
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Procedure

Test Procedure "A"

This procedure shall be used to determine if critical areas of the cover material have been properly processed during the manufacturing operations employed in unitizing a specific seat cover assembly.

Note: Critical areas are defined as bond lines, embossments, sew lines and formed or shaped areas.

Test Procedure "B"

This procedure is used to evaluate unitized seat cover components under accelerated aging conditions to determine the compatibility of the assembly components.

Conditioning of Samples

All samples shall be conditioned at 23 +/- 2 °C and 50 +/- 5 % relative humidity for at least 24 h prior to testing.

Test Procedure "A"

1. Cut samples from the critical areas of the unitized seat assembly and separate the cover stock from the other components except in the critical areas to be tested such as bond lines, sew lines, etc. Cut samples from non-critical areas and separate cover stock from other components to test the virgin area of the cover stock when required.
2. Determine tensile strength as outlined in ASTM D 1682.
3. If test results are below the minimum tensile specified by the applicable Engineering material specifications for bonded, embossed, formed, shaped or sewn area, the assembly shall be rejected for improper processing, provided that the virgin areas of the cover material meet the specifications. (If the virgin areas do not meet specification, then the quality of the processing cannot be verified.)

Test Procedure "B"

This test is conducted after the assembly has been approved when evaluated by Test Procedure "A".

1. Cut three test specimens 65 x 80 mm from the bonded seat assembly and subject one specimen to aging test "a", the second to "b" and the third to "c". The samples shall be cut to represent all typical bonded or sewn areas.

Aging Test "a"

Age a test specimen for seven days at 102 +/- 3 °C.

Aging Test "b"

Expose a test specimen for 200 h in a fluorescent sunlamp cabinet at 63 +/- 3 °C at 300 mm from the lamps.