

DIMENSIONAL STABILITY OF TEXTILE TRIM MATERIALS**Application**

This method is used to determine the dimensional changes of textile trim materials under the influence of heat and humidity.

Apparatus Required**Mechanical Convection Oven**

Capable of maintaining a constant temperature of 80 ± 2 °C.

Humidity Cabinet

Capable of maintaining a constant temperature of 38 ± 2 °C and a relative humidity of 98 ± 2 %.

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.

Procedure

1. Take a test specimen 300 x 300 mm in size, and using a sharp pencil on the finished side (i.e., "appearance" side), mark off as accurately as possible in the center of it, a 250 x 250 mm square. Materials with a rough surface such as carpet may be marked on the opposite side.
2. Condition the test specimen for 24 h in the humidity cabinet at 38 ± 2 °C and a relative humidity of 98 ± 2 %.
3. Remove, measure immediately and compute any dimensional changes which may have taken place.
4. Condition the test specimen subsequently for 24 h in a convection oven at 80 ± 2 °C.

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5. Remove, measure immediately and compute any dimensional changes which may have taken place.
7. Repeat steps 3 - 6 as often as required by the number of cycles specified in the relevant Engineering Material Specification.

Chemicals, materials, parts, and equipment referenced in this document must be used and handled properly. Each party is responsible for determining proper use and handling in its facilities.