

EXTENDED HEAT AGING OF POLYMERIC COATED FABRICS**Application**

This test method determines the ability of polymeric coated fabrics to withstand stress in a heated environment after extended heat aging.

Apparatus Required**Oven**

Air recirculating, capable of maintaining 65 to 110 °C, with an inside chamber height of 450 mm minimum, conforming with ISO 188/ASTM E145 type IIA normal oven 150 +/- 50 air charges/per hour.

Fixture Assembly - see Figure 1

Frame, clamps, and weight designed to fit inside the oven and able to support the weighted specimens. One weight and one bottom clamp shall total 4.5 kg.

Test Specimens

2 required, 35 x 115 mm

Specimens must be cut from the center section of the material. One cut with the long dimension parallel to the machine direction (warp), and one cut with the long dimension perpendicular to the machine direction (fill).

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. Place the test specimens in an air-circulating oven maintained at 110 +/- 2 °C for 14 days.
2. Remove the test specimens from the oven and condition for 2 h at 23 +/- 2 °C and 50 +/- 5 % relative humidity.

Date	Action	Revisions
2001 09 24	Revised	Editorial – no technical change A. Cockman
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3. Place frame, clamps, and weights in an air-circulating oven at 65 +/- 2 °C until temperature equilibrium is reached.
4. Affix a clamp to each end of the specimen, hang the upper clamp on the frame in the oven, attach the weight to the lower clamp and suspend vertically in the oven at 65 +/- 2 °C for 15 minutes (see Figure 1).
5. Remove the specimen and examine for evidence of delamination, cracks, or loss of polymeric film integrity.

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.