

CROCKING - INSTRUMENTAL EVALUATION

Application

This procedure is used to determine the amount of color transferred from the surface of visible interior trim materials to other surfaces by rubbing.

Apparatus Required

Crockmeter

Must have a cylindrical acrylic, brass, or wooden finger, 16 mm in diameter, which has a flat, smooth end and slightly rounded edges to prevent abrading. The cylindrical finger shall exert a force of 9 N on the test material and shall have a stroke of approximately 100 mm. The Crockmeter may be either motor or hand driven.

Source: Atlas Electric Devices Co.
4114 N. Ravenswood Ave.
Chicago, Illinois 60613 U.S.A.

Colorimeter

Used for color difference measurement. Shall be either a spectro-photometer or a tristimulus colorimeter, and shall be capable of providing the following:

Color Scale	CIE L* a* b*
Observer	10 °
Illuminant	D 65
Sample port size	10 mm
Light source	6.35 mm dia

Source: Any reputable manufacturer of colorimeters or spectrophotometers capable of providing instruments with the above mentioned characteristics.

Oven

Forced air; capable of maintaining 82 +/- 2 °C.

White Tile - 50 mm square

Date	Action	Revisions
2001 09 11	Revised	Editorial – no technical change A. Cockman
1998 10 14		

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Materials Required

Distilled or Deionized Water

20 micromhos/cm at 25 °C max conductivity per ASTM D 1125.

AATCC Crockmeter Test Cloth

Sections of 50 x 50 mm crockmeter squares, 80 x 84 thread count combed cotton, desized, bleached (no optical brightener or finishing material present). Style 3.

Source: Test Fabrics, Inc.
P.O. Box 26
415 Delaware Ave.
West Pittston, PA 18643, USA
Phone: (717) 603-0432
Fax: (717) 603-0433

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

Dry Crocking

1. Allow the fabric test specimens and the crockmeter cloth to attain moisture equilibrium at a temperature of 23 +/- 2 °C, in an atmosphere having a relative humidity of 50 +/- 5 %.
2. Fasten the fabric test specimen securely to the base of the crockmeter so that it is flat.
3. Mount two 50 x 50 mm crockmeter cloths over the end of the finger of the crockmeter, with the weave oblique to the direction of rubbing. The second layer of crockmeter cloth is used to prevent slippage of the primary crockmeter cloth during the test.
4. Move the finger across the fabric test specimen for ten complete back and forth cycles, at a rate of 1 cycle per second.
5. Remove the crockmeter cloth from the finger and evaluate.