



Standard Test Method for Determination of Resistance of Leather to (Bleeding) Color Stain Transfer¹

This standard is issued under the fixed designation D 6012; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This test method² covers the determination of whether leather bleeds (exudes coloring matter) when in intimate contact with wet surfaces, as indicated by staining produced on wet cloth in contact with the leather. This test method does not apply to wet blue.

1.2 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information only.

1.3 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 *ASTM Standards:*

D 1610 Practice for Conditioning Leather and Leather Products for Testing³

3. Terminology

3.1 *Definitions of Terms Specific to This Standard:*

3.1.1 *bleeding*—the transfer of color from a finished leather sample onto or into another medium.

4. Significance and Use

4.1 Bleed resistance is considered to be an important characteristic in leather used to make lined and unlined items that may come in contact with water.

5. Apparatus

5.1 *One or More Assemblies*, consisting of a flat glass or plastic square, and same size as transfer pad with a suitable weight placed on top of the square. The combined weight shall

be 100 ± 5 g. (An assembly consisting of a plastic or glass plate and a 1 fluid oz (29 cc) plastic or glass jar with plastic lid to which the appropriate amount of lead shot or steel balls is added has been found suitable. The plate and jar may be held together by a suitable cement or pressure-sensitive adhesive tape.)

5.2 *Container*, flat-bottomed, heat-resistant plastic or other similar material with cover of sufficient size to accommodate a maximum of 15 specimens. A container 12 in. (300 mm) long, 9 in. (230 mm) wide and 4 in. (100 mm) high has been found suitable.

5.3 *Forced Circulating-Air Oven*, capable of maintaining the required temperature of $38 \pm 2^\circ\text{C}$ ($100.4 \pm 3.6^\circ\text{F}$).

5.4 *Balance*, single beam or high speed.

5.5 *Bleached Cotton Sheetting*,⁴ 2-in. (51.6-mm) squares.

6. Test Specimen

6.1 The specimen shall be a square of leather 1.0 by 1.0 in. (25 by 25 mm).

6.2 *Number of Determinations*—Unless otherwise specified in the material specification, one specimen from each sample unit shall be tested.

7. Procedure

7.1 Bring the leather specimen and the color transfer pad made of 4 layers of cotton sheeting to moisture equilibrium in accordance with standard atmospheric conditions (see Practice D 1610). Weigh the conditioned pad to the nearest 0.05 g. After weighing, wet the pad with enough distilled water to double the weight of the conditioned pad.

NOTE 1—The dry weight of the conditioned pad is usually 1.0 to 1.1 g, and the weight of the wet pad is usually 2.0 to 2.2 g.

If necessary, remove excess water from the pad in order to attain the proper weight. Place the wet pad in the bottom of the plastic container, and place the leather specimen approximately in the center of the pad. Unless otherwise specified, the grain side of the leather shall be in contact with the pad. Immediately

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² This test method was developed from Federal Test Method Standard No. 311 Method 3021.2 in cooperation with the U.S. Army Natick Research Development and Engineering Center, Natick, MA, and the Defense Personnel Support Center Directorate of Clothing and Textiles, Philadelphia, PA.

³ *Annual Book of ASTM Standards*, Vol 15.04.

⁴ The sole source of supply of the color transfer cloth known to the committee at this time is Test Fabrics, Inc., P.O. Box 53, 200 Blackford Ave., Middlesex, NJ 08846. If you are aware of alternative suppliers, please provide this information to ASTM Headquarters. Your comments will receive careful consideration at a meeting of the responsible technical committee, which you may attend.