



Standard Performance Specification for Vinyl-Coated and Urethane-Coated Upholstery Fabrics—Indoor¹

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1. Scope

1.1 This performance specification covers performance requirements for vinyl-coated and urethane-coated upholstery fabrics produced with woven, knit, or nonwoven substrates which are used in the manufacture of new indoor furniture.

1.2 This performance specification is not applicable to fabrics used in porch, deck, or lawn furniture; nor for plain knit fabrics and plain, tufted, or flocked, woven upholstery fabrics.

1.3 These requirements apply to the length and width directions for those properties where fabric direction is pertinent.

1.4 *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 123 Terminology Relating to Textiles²

D 751 Test Methods for Coated Fabrics³

D 1175 Test Methods for Abrasion Resistance of Textile Fabrics (Oscillatory Cylinder and Uniform Abrasion Method)⁴

D 1203 Test Methods for Volatile Loss from Plastics Using Activated Carbon Methods⁵

D 2097 Methods of Flex Testing of Finish on Upholstery Leather⁶

D 2136 Test Method for Coated Fabrics—Low-Temperature Bend Test⁷

D 2905 Practice for Statements on Number of Specimens for Textiles²

D 3884 Test Method for Abrasion Resistance of Textile Fabrics (Rotary Platform, Double Head Method)⁸

D 4157 Test Method for Abrasion Resistance of Textile Fabrics (Oscillatory Cylinder Method)⁸

D 5034 Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test)⁸

2.2 AATCC Test Methods:⁹

8 Colorfastness to Crocking: AATCC Crockmeter Method

16 Colorfastness to Light

116 Colorfastness to Crocking: Rotary Vertical Crockmeter Method

Evaluation Procedure 1 Gray Scale for Color Change

Evaluation Procedure 3 Chromatic Transference Scale

2.3 Chemical Fabrics and Film Association Standards:¹⁰

CFFA-5 Test for Blocking

CFFA-20 Test for Tearing Strength, Procedure B—Tongue Method

NOTE 1—Reference to test methods in this specification give only the permanent part of the designation of ASTM, AATCC, or other test methods. The current editions of each test method cited shall prevail.

3. Terminology

3.1 Definitions:

3.1.1 *blocking, n*—the measurement of the development of surface tack and the thermal softening point of the material.

3.1.2 *hydrolytic stability, n*—the ability to withstand the environmental effects of high humidity.

3.1.3 *tack tear, n*—the measurement of the resistance of a coated fabric to tearing under conditions simulating an installation that has been tacked in place.

3.1.3.1 *Discussion*—Tack tear is intended primarily for testing vinyl-coated fabrics for furniture or automotive applications.

3.2 For definitions of other textile terms used in this specification, refer to Terminology D 123 and to the Technical Manual of the American Association of Textile Chemists and Colorists.⁹

⁸ Annual Book of ASTM Standards, Vol 07.02.

⁹ Available from American Association of Textile Chemists and Colorists, P.O. Box 12215, Research Triangle Park, NC 27709.

¹⁰ Available from Chemical Fabrics and Film Association, 1230 Keith Bldg., Cleveland, OH 44115.

¹ This specification is under the jurisdiction of ASTM Committee D13 on Textiles and is the direct responsibility of Subcommittee D13.63 on Home Furnishings.

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² Annual Book of ASTM Standards, Vol 07.01.

³ Annual Book of ASTM Standards, Vol 09.02.

⁴ Discontinued—Replaced by D 4157 and D 4158, Annual Book of ASTM Standards, Vol 07.01.

⁵ Annual Book of ASTM Standards, Vol 08.01.

⁶ Annual Book of ASTM Standards, Vol 15.04.

⁷ Annual Book of ASTM Standards, Vols 09.01 and 09.02.