



Designation: D4111 – 12 (Reapproved 2019)

Standard Performance Specification for Woven Napery and Tablecloth Fabrics: Household and Institutional¹

This standard is issued under the fixed designation D4111; 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 performance specification covers woven fabrics comprised of any textile fiber or mixture of fibers to be used in napery and tablecloths (household and institutional).

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

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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.4 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 *ASTM Standards:*²

- D123 Terminology Relating to Textiles
- D1336 Test Method for Distortion of Yarn in Woven Fabrics
- D1424 Test Method for Tearing Strength of Fabrics by Falling-Pendulum (Elmendorf-Type) Apparatus
- D2261 Test Method for Tearing Strength of Fabrics by the Tongue (Single Rip) Procedure (Constant-Rate-of-Extension Tensile Testing Machine)
- D2724 Test Method for Bond Strength of Bonded, Fused, and Laminated Apparel Fabrics
- D5034 Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test)

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 For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

D7023 Terminology Relating to Home Furnishings

2.2 *AATCC Methods:*³

- TM8 Colorfastness to Crocking. Crockmeter Method
- TM16.3 Colorfastness to Light: Xenon-Arc
- TM23 Colorfastness to Burnt Gas Fumes
- TM61 Colorfastness to Laundering: Accelerated
- TM92 Chlorine, Retained, Tensile Loss: Single Sample Method
- TM96 Dimensional Changes in Commercial Laundering of Woven and Knitted Fabrics Except Wool
- TM116 Colorfastness to Crocking: Rotary Vertical Crockmeter Method
- TM124 Smoothness Appearance of Fabrics after Home Laundering
- TM130 Soil Release: Oily Stain Release Method
- TM135 Dimensional Changes of Fabrics after Home Laundering
- TM172 Colorfastness to Powdered Non-Chlorine Bleach in Home Laundering
- TM188 Colorfastness to Sodium Hypochlorite Bleach in Home Laundering
- EP1 Gray Scale for Color Change
- EP2 Gray Scale for Staining
- EP8 AATCC 9-Step Chromatic Transference Scale

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

3. Terminology

3.1 *Definitions:*

3.1.1 For all terminology related to home furnishings see Terminology D7023.

3.2 For definitions of all other textile terms see Terminology D123.

4. Specification Requirements

4.1 The properties of woven fabrics for napery and tablecloths for household and institutional uses shall conform to the specification requirements in Table 1.

³ Available from American Association of Textile Chemists and Colorists, P.O. Box 12215, Research Triangle Park, NC 27709.