

Designation: D4111 – 12

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

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-
- htt Extension Tensile Testing Machine) dards/sist
- D2724 Test Methods for Bonded, Fused, and Laminated Apparel Fabrics
- D5034 Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test)
- D7023 Terminology Relating to Home Furnishings 2.2 + AATCC Mathe das³
- 2.2 AATCC Methods:³
- 8 Colorfastness to Crocking: Crockmeter Method
- 16 Option 3 Colorfastness to Light: Xenon-Arc Lamp, Continuous Light

- 23 Colorfastness to Burnt Gas Fumes
- 61 Colorfastness to Laundering: Accelerated
- 92 Chlorine, Retained, Tensile Loss: Single Sample Method 96 Dimensional Changes in Commercial Laundering of
- Woven and Knitted Fabrics Except Wool 116 Colorfastness to Crocking: Rotary Vertical Crockmeter Method
- 124 Smoothness Appearance of Fabrics after Repeated Home Launderings
- 130 Soil Release: Oily Stain Release Method
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- 172 Colorfastness to Powdered Non-Chlorine Bleach in Home Laundering
- 188 Colorfastness to Sodium Hypochlorite Bleach in Home Laundering
- Evaluation Procedure 1 Gray Scale for Color Change
- Evaluation Procedure 2 Gray Scale for Staining
- Evaluation Procedure 8 AATCC 9-Step Chromatic Transference Scale

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 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.

5. Significance and Use

5.1 Upon agreement between the purchaser and the seller, fabrics intended for this end use should meet all of the requirements listed in Table 1 of this specification.

5.2 It is recognized that for purposes of fashion or aesthetics the ultimate consumer of articles made from these fabrics may

 $^{^1\,\}text{This}$ 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.

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