



Designation: D 4111 – 95 (Reapproved 2001)

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

This standard is issued under the fixed designation D 4111; 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:

- D 123 Terminology Relating to Textiles²
 - D 1336 Test Method for Distortion of Yarn in Woven Fabrics²
 - D 1424 Test Method for Tear Resistance of Woven Fabrics by Falling-Pendulum (Elmendorf) Apparatus²
 - D 1682 Test Methods for Breaking Load and Elongation of Textile Fabrics²
 - D 2261 Test Method for Tearing Strength of Woven Fabrics by the Tongue (Single Rip) Method (Constant-Rate-of-Extension Tensile Testing Machine)²
 - D 2262 Test Method for Tearing Strength of Woven Fabrics by the Tongue (Single Rip) Method (Constant-Rate-of-Traverse Tensile Testing Machine)²
 - D 2724 Test Methods for Bonded, Fused, and Laminated Apparel Fabrics²
 - D 2905 Practice for Statements on Number of Specimens for Textiles²
- #### 2.2 AATCC Methods:³
- 8 Colorfastness to Crocking: AATCC Crockmeter Method
 - 16 Colorfastness to Light

- 23 Colorfastness to Burnt Gas Fumes
 - 61 Colorfastness to Washing, Domestic, and Laundering, Commercial: Accelerated
 - 92 Chlorine, Retained, Tensile Loss: Single Sample Method
 - 96 Dimensional Changes in Laundering of Woven and Knitted Textiles Except Wool
 - 116 Colorfastness to Crocking: Rotary Vertical Crockmeter Method
 - 124 Appearance of Durable Press Fabrics After Repeated Home Launderings
 - 130 Soil Release: Oily Stain Release Method
 - 135 Dimensional Changes in Automatic Home Laundering of Woven or Knit Fabrics
 - Evaluation Procedure No. 1 Gray Scale for Color Change
 - Evaluation Procedure No. 2 Gray Scale for Staining
 - Evaluation Procedure No. 3 AATCC Chromatic Transference Scale
- #### 2.3 Federal Standard:⁴
- 16 CFR, Chapter II—Consumer Product Safety Commission Subchapter D—Flammable Fabrics Act Regulations
- #### 2.4 Military Standard:⁵
- MIL-STD-105D Sampling Procedures and Tables for Inspection by Attributes

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 definitions of textile terms used in this specification refer to the individual ASTM and AATCC methods and to Terminology D 123.
- 3.2 Definitions found in a dictionary of common terms are suitable for this specification.

4. Specification Requirements

- 4.1 The properties of woven fabrics for napery and tablecloths for household and institutional uses shall conform to the

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

⁴ Available from Superintendent of Documents, Government Printing Office, Washington, DC 20402.

⁵ Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094, Attn: NPODS.