

Performance Specification for WOVEN AND KNIT HOUSEHOLD PILLOWCASE, BED SHEET, AND CRIB SHEET FABRICS¹

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1. Scope

1.1 This performance specification covers woven and knit fabrics to be used in the manufacturing of household pillowcases, bed sheets, and crib sheets.

1.2 This performance specification is not applicable to woven and knit fabrics used for sheet blankets, and to woven and knitted sheet fabrics used for apparel.

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

2. Applicable Documents

2.1 ASTM Standards:

D 123 Definition of Terms Relating to Textiles²

D 1424 Test for Tear Resistance of Woven Fabrics by Falling Pendulum (Elmendorf) Apparatus³

D 1682 Test for Breaking Load and Elongation of Textile Fabrics³

D 2262 Test for Tearing Strength of Woven Fabrics by Tongue (Single Rip) Method (Constant-Rate-of-Traversal Tensile Testing Machine)³

D 2905 Practice for Statements on Number of Specimens Required to Determine the Average Quality of Textiles³

D 3786 Test for Hydraulic Bursting Strength of Knitted Goods and Nonwoven Fabrics: Diaphragm Bursting Strength Tester Method³

D 3787 Test for Bursting Strength of Knitted Goods. Constant-Rate-of-Traversal (CRT), Ball Burst Test³

2.2 AATCC Methods:⁴

8-1977 Colorfastness to Crocking: AATCC Crockmeter Method

15-1976 Colorfastness to Perspiration

16A-1977 Colorfastness to Light: Carbon-Arc Lamp, Continuous Light

16E-1978 Colorfastness to Light: Water-Cooled Xenon-Arc Lamp, Continuous Light

61-1975 Colorfastness to Washing, Domestic and Laundering, Commercial: Accelerated

116-1977 Colorfastness to Crocking: Rotary Vertical Crockmeter Method

124-1978 Appearance of Durable Press Fabrics After Repeated Home Laundering

135-1978 Dimensional Changes in Automatic Home Laundering of Durable Press Woven or Knit Fabric

Evaluation Procedure 1 Gray Scale for Color Change

Evaluation Procedure 2 Gray Scale for Staining

Evaluation Procedure 3 AATCC Chromatic Transference Scale

NOTE 1—The specific dated editions of ASTM test methods that prevail in this document are referenced in Section 7 on Test Methods.

3. Definitions

3.1 *muslin, n*—as applied to bed sheeting, a plain weave fabric with not fewer than 128 yarns/in.² (645 mm²).

3.1.1 *Discussion*—The construction shall be approximately balanced, namely neither yarn

¹ This specification is under the jurisdiction of ASTM Committee D-13 on Textiles and is the direct responsibility of Subcommittee D13.56 on Performance Standards for Textile Fabrics.

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² *Annual Book of ASTM Standards*, Part 32 and 33.

³ *Annual Book of ASTM Standards*, Part 32.

⁴ Available from American Association of Textile Chemists and Colorists, P.O. Box 12215, Research Triangle Park, N.C. 27709.