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Designation: D3785 – 02(Reapproved 2008)

Standard Performance Specification for Woven Necktie and Scarf Fabrics[1]

This standard is issued under the fixed designation D3785; 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 necktie and scarf fabrics composed of any textile fiber or mixture of textile fibers.

1.2 This performance specification is not applicable to woven fabrics used for interlinings.

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

1.4 The following precautionary caveat pertains only to the test methods portion, Section 7, of this specification. *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

D434 Test Method for Resistance to Slippage of Yarns in Woven Fabrics Using a Standard Seam (Withdrawn 2003)[3]

D1336 Test Method for Distortion of Yarn in Woven Fabrics

D1424 Test Method for Tearing Strength of Fabrics by Falling-Pendulum (Elmendorf-Type) Apparatus

D1682 Test Method for Breaking Load and Elongation of Textile Fabric (Withdrawn 1992)[3]

D2262 Test Method for Tearing Strength of Woven Fabrics by the Tongue (Single Rip) Method (Constant-Rate-of-Traverse Tensile Testing Machine) (Withdrawn 1995)[3]

D2724 Test Methods for Bonded, Fused, and Laminated Apparel Fabrics

D2905 Practice for Statements on Number of Specimens for Textiles (Withdrawn 2008)[3]

2.2 *AATCC Methods:*[4]

8-1974 Colorfastness to Crocking: AATCC Crockmeter Method

15-1976 Colorfastness to Perspiration

16-1974 Colorfastness to Light

23-1975 Colorfastness to Burnt Gas Fumes

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

96-1975 Dimensional Changes in Laundering of Woven and Knitted Textiles Except Wool

116-1974 Colorfastness to Crocking: Rotary Vertical Crockmeter Method

124-1975 Appearance of Durable Press Fabrics After Repeated Home Launderings

132-1976 Colorfastness to Drycleaning

135-1973 Dimensional Changes in Automatic Home Laundering of Durable Press Woven or Knit Fabrics

172 Colorfastness to 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 3 AATCC 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 *scarf—in apparel*, an oblong or square piece of cloth worn for warmth or as a decorative item.

3.2 For definitions of textile terms used in this specification, refer to Terminology D123 and the Technical Manual of the American Association of Textile Chemists and Colorists.[4]

[1] This performance specification is under the jurisdiction of ASTM Committee D13 on Textiles and is the direct responsibility of Subcommittee D13.61 on Apparel.

Current edition approved Aug. 1, 2008. Published October 2008. Originally approved in 1979. Last previous edition approved in 2002 as D3785 – 02. DOI: 10.1520/D3785-02R08.

[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] The last approved version of this historical standard is referenced on www.astm.org.

[4] Available from American Association of Textile Chemists and Colorists (AATCC), P.O. Box 12215, Research Triangle Park, NC 27709, http://www.aatcc.org.

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4. Specification Requirements

4.1 The properties of fabrics for woven neckties and scarfs shall conform to the specification requirements in Table 1.

TABLE 1 Specification Requirements

NOTE 1—Class in colorfastness and DP requirements is based on a numerical scale of 5 for negligible or no color change, color transfer, or fabric wrinkle to 1 for severe color change, color transfer, or fabric wrinkle.

Characteristic	Requirements	Section
Breaking strength (load) (CRT)	20 lbf (89 N), min	7.1
Yarn slippage	¼-in. (6.3-mm) separation at 15 lbf(67 N), min	7.2
Tongue tear strength	1.5 lbf (6.7 N), min	7.3
Yarn distortion:		7.4
Satins	0.10 in. (2.5 mm), min	
All other	0.05 in. (1 mm), min	
Dimensional change:		
After five launderings	3 % max	7.5.1
After three dry cleanings	2 % max	7.5.2
Colorfastness:		
Burnt gas fumes—2 cycles:		7.6.1
Shade change, original fabric	Class 4[A] min	
Shade change after one laundering or one dry cleaning	Class 4[A] min	
Sodium Hypochlorite Bleach	Class 4[A] min	7.6.7
Non-Chlorine Bleach	Class 4[A] min	7.6.8
Laundering:		7.6.2
Shade change	Class 4[A] min	
Staining	Class 3[B] min	
Dry cleaning:		7.6.3
Shade change	Class 4[A] min	
Crocking:		7.6.4
Dry	Class 4[C] min	
Wet	Class 3[C] min	
Perspiration:		7.6.5
Shade change	Class 4[A] min	
Staining	Class 3[B] min	
Light (20 AATCC FU) (xenon-arc)	Step 4[A] min	7.6.6
Fabric appearance (see 7.7.1.1)	DP 3.5[D] min	7.7
Flammability	pass	7.8

[A] AATCC Gray Scale for Color Change.
[B] AATCC Gray Scale for Staining.
[C] AATCC Chromatic Transference Scale
[D] For durable-press fabrics only.

5. Significance and Use

5.1 Upon mutual agreement between the purchaser and the seller, woven 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 find acceptable fabrics that do not conform to all of the requirements in Table 1. Therefore, one or more of the requirements listed in Table 1 may be modified by mutual agreement between the purchaser and the seller.

5.2.1 In such cases, any references to the specification shall specify that: This fabric meets ASTM Specification D3785 except for the following characteristic(s).

5.3 Where no prepurchase agreement has been reached between the purchaser and the seller, and in case of controversy, the requirements listed in Table 1 are intended to be used as a guide only. As noted in 5.2, ultimate consumer demands dictate varying performance parameters for any particular style of fabric.

5.4 The significance and use of particular properties and test methods are discussed in the appropriate sections of the specified test methods.

6. Sampling

6.1 Tests shall be performed on the fabric as it will reach the consumer.

6.2 Unless otherwise agreed upon, as when specified in an applicable material specification, take the number of specimens directed in each of the applicable test methods.

6.2.1 If there has been no prior agreement and the test method does not specify the number of specimens, use the procedure in Practice D2905 to determine the number of specimens, such that the user may expect at the 95 % probability level that the test result is no more than 5 % of the average above or below the lot average (that is, the average that would be obtained by applying this method to the entire lot) when using a reliable estimate of variability of individual observations on similar materials in the user's laboratory under conditions of single-operator precision.

7. Test Methods (See Note 1)

7.1 *Breaking Strength (Load)*—Determine the dry breaking strength, in the standard atmosphere for testing textiles, as directed in the grab test procedure of Test Methods D1682, using a constant-rate-of traverse (CRT) tensile testing machine with the speed of the pulling jaw at 12 ± 0.5 in. (305 ± 13 mm)/min.

NOTE 2—If preferred, the use of a constant-rate-of-extension (CRE) tensile testing machine is permitted. The crosshead speed should be as agreed upon between the purchaser and the seller. There may be no overall correlation between the results obtained with the CRT machine. Consequently these two breaking load testers cannot be used interchangeably. In case of controversy, the CRT method shall prevail.

7.2 *Resistance to Yarn Slippage*—Determine the resistance to yarn slippage as directed in Test Method D434.

NOTE 3—The precision of Test Method D434 is being established and it may not be suitable for fabrics with low yarn counts (see 5.2) in terms of ends and picks per inch.

7.3 *Tongue Tear Strength*—Determine the tongue tear strength as directed in Test Method D2262.

NOTE 4—If preferred, use of Test Method D1424 is permitted with existing requirements as given in this specification. There may be no overall correlation between the results obtained with the tongue tear machine and with the Elmendorf machine. Consequently, these two tear testers cannot be used interchangeably. In case of controversy, Test Method D2262 shall prevail.

7.4 *Yarn Distortion*— Determine the yarn distortion as directed in Test Method D1336.

7.5 *Dimensional Change:*

7.5.1 *Laundering*—Determine the maximum dimensional change after five launderings as directed in the applicable procedure in AATCC Method 135 (Note 5).

7.5.1.1 The wash conditions and drying procedure shall be as specified by the seller.

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