



Designation: D4035-95 Designation: D 4035 – 02 (Reapproved 2008)

Standard Performance Specification for Knitted Necktie and Scarf Fabrics¹

This standard is issued under the fixed designation D 4035; 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 knitted necktie and scarf fabrics composed of any textile fiber or mixture of textile fibers.

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

1.3 The following precautionary statement 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

D 123 ~~Terminology Relating to Textiles— Terminology Relating to Quality and Statistics~~

D 2594 ~~Test Methods for Stretch Properties of Knitted Fabrics Having Low Power²~~ Terminology Relating to Quality and Statistics

D 2724 ~~Test Methods for Bonded, Fused, and Laminated Apparel Fabrics²~~ Terminology Relating to Quality and Statistics

D 2905 ~~Practice for Statements on Number of Specimens for Textiles²~~ Terminology Relating to Quality and Statistics

D 3786 ~~Test Method for Hydraulic Bursting Strength of Knitted Goods and Nonwoven Fabrics—Diaphragm Bursting Strength Fester Method~~ Terminology Relating to Quality and Statistics

D 3787 ~~Test Method for Bursting Strength of Knitted Goods—Constant Rate of Traverse (CRT) Ball Burst Test³~~ Terminology Relating to Quality and Statistics

2.2 AATCC Methods:³

8-1977 Colorfastness to Crocking: AATCC Crockmeter Method

15-1979 Colorfastness to Perspiration

16-1977 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

116-1977 Colorfastness to Crocking: Rotary Vertical Crockmeter Method

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

132-1977 Colorfastness to Drycleaning

135-1978 ~~Dimensional Changes in Automatic Home Launderings of Durable Press Woven of Knit Fabrics—~~ Dimensional Changes in Automatic Home Launderings of Durable Press Woven of 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

¹ This 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 May 15, 1995. Published July 1995. Originally published as D4035-81. Last previous edition D4035-92.

² 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 1981. Last previous edition approved in 2002 as D 4035 – 02.

³ 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*, Vol 07.01, volume information, refer to the standard's Document Summary page on the ASTM website.

⁴ Annual Book of ASTM Standards, Vol 07.02.

⁵ Available from American Association of Textile Chemists and Colorists (AATCC), P.O. Box 12215, Research Triangle Park, NC 27709, <http://www.aatcc.org>.

2.3 Federal Standard:⁴

16 CFR 1610—Standard for Flammability of Clothing Textiles

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 *necktie*—a decorative band of fabric worn around the neck and tied in a knot or a bow.

3.1.2 *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 the individual ASTM and AATCC test methods and to Terminology D 123.

4. Specification Requirements

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

5. Significance and Use

5.1 Upon mutual 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 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 D 4035 except for the following characteristic(s).”

⁴ 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.

TABLE 1 Specification Requirements

NOTE 1—Class for colorfastness and DP rating is based on a numerical scale of 5 for negligible or no color change, color transfer, or wrinkle to 1 for very severe color change, color transfer, or wrinkle. The numerical rating in Table 1 or a higher numerical rating is acceptable.

Characteristic	Requirements	Section
Bursting strength (load) (ball burst)	50 lbf (222 N)	7.1
Dimensional change:		
Pressing and finishing	2 % max	7.2.1
After five launderings	5 % max	7.2.2
After three dry cleanings	3 % max	7.2.3
Growth	3 % max	7.2.4
Colorfastness:		
Burnt gas fumes, 2 cycles:		7.3.1
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	7.3.7
Non-Chlorine Bleach	Class 4 ^A min	7.3.8
Laundering:		
Shade change	Class 4 ^A min	
Staining	Class 3 ^B min	
Drycleaning:		
Shade change	Class 4 ^A min	7.3.3
Crocking:		
Dry	Class 4 ^C min	7.3.4
Wet	Class 3 ^C min	
Perspiration		
Shade change	Class 4 ^A min	
Staining	Class 3 ^B min	
Light (40 AATCC FU) (xenon-arc)	Step 4 ^A min	7.3.6
Fabric appearance (see 7.4.1.1)	DP 3.5 ^D min	7.4
Flammability	Class 1 or Class 2	7.5

^A AATCC Gray Scale for Color Change.

^B AATCC Gray Scale for Staining.

^C AATCC Chromatic Transference Scale.

^D For durable press fabrics only.