



Designation: D 3781 – 95

Standard Performance Specification for Men's and Boys' Knitted Rainwear and All-Purpose, Water-Repellent Coat Fabrics¹

This standard is issued under the fixed designation D 3781; 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 men's and boys' knitted rainwear and all-purpose water-repellent coat fabrics composed of any textile fiber or mixture of textile fibers.

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

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

2. Referenced Documents

2.1 ASTM Standards:

D 123 Terminology Relating to Textiles²

D 231 Method of Testing and Tolerances for Knit Goods³

D 2594 Test Methods for Stretch Properties of Knitted Fabrics Having Low Power²

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:⁴

8-1974 Colorfastness to Crocking: AATCC Crockmeter Method

15-1976 Colorfastness to Perspiration

16-1974 Colorfastness to Light

22-1974 Water Repellency: Spray Test

23-1975 Colorfastness to Burnt Gas Fumes

35-1974 Water Resistance: Rain Test

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

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 gives only the permanent part of the designation of ASTM, AATCC, or other test methods. The current editions of each test method cited shall prevail. The specific dated editions of the ASTM test methods that prevail in this document are referenced in Section 7.

3. Terminology

3.1 Definition:

3.1.1 *dimensional change, n—in pressing and finishing of textiles*, the change in dimensions of a fabric caused by pressing and finishing during garment manufacture.

3.1.2 For definitions of other textile terms used in this specification, refer to the individual ASTM and AATCC test methods and to Terminology D 123.

3.2 Definitions of Terms Specific to This Standard:

3.2.1 *pressing and finishing*—This term takes into account all of the industrial pressing and finishing treatments used in garment production.

NOTE 2—No standard method is available for reproducing on a laboratory level the results of industrial press or finishing treatments, or both, used in the manufacture of woven outerwear garments.⁵

4. Specification Requirements

4.1 The properties of fabrics for men's and boys' knitted rainwear and all-purpose, water-repellent coats shall conform to the specification requirements in Table 1.

5. Significance and Use

5.1 Knitted fabrics should meet all of the requirements in Table 1 to be suitable for use in the manufacture of rainwear and all-purpose, water-repellent coats for men and boys.

5.2 It is recognized that for purposes of fashion or aesthetics the ultimate consumer of articles made from these fabrics may find acceptable some fabrics that do not conform to all of the

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² *Annual Book of ASTM Standards*, Vol 07.01.

³ Discontinued, see 1979 *Annual Book of ASTM Standards*, Part 32.

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

⁵ The development of a standard method has been referred to Subcommittee D13.59 on Fabric Test Methods, General.