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Standard Performance Specification for Woven, Thermal, Flocked, Nonwoven and Knitted Household Blanket Fabrics¹

This standard is issued under the fixed designation D 3993; 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 the requirements for woven, thermal, flocked, nonwoven and knitted fabrics used in the manufacturing of household blankets.

1.2 This performance specification is not applicable to woven and knit fabrics used for bindings or interlinings.

1.3 For those properties where fabric direction is pertinent, these requirements apply to both length and width direction.

2. Referenced Documents

2.1 ASTM Standards:

D 123 Terminology Relating to Textiles²

D 1518 Test Method for Thermal Transmittance of Textile Materials²

D 1682 Test Methods for Breaking Load and Elongation of Textile Fabrics²

D 2724 Test Methods for Bonded, Fused, and Laminated Apparel Fabrics²

D 2905 Practice for Statements on Number of Specimens for Textiles²

D 3786 Test Method for Hydraulic Bursting Strength of Knitted Goods and Nonwoven Fabrics—Diaphragm Bursting Strength Tester Method²

D 3787 Test Method for Bursting Strength of Knitted Goods—Constant-Rate-of-Traverse (CRT), Ball Burst Test²

2.2 AATCC Methods:³

8 Colorfastness to Crocking: AATCC Crockmeter Method
16A Colorfastness to Light: Carbon-Arc Lamp, Continuous Light

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

23 Colorfastness to Burnt Gas Fumes

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

116 Colorfastness to Crocking: Rotary Vertical Crockmeter Method

132 Colorfastness to Drycleaning

135 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. Terminology

3.1 Definitions:

3.1.1 *blanket, n*—for bedding, an unquilted fabric covering designed primarily to provide thermal insulation.

3.1.1.1 *Discussion*—Blankets may be made by any textile process from various types of fibers and may or may not have a raised fiber surface. Construction may be knitted, flocked, woven, nonwoven, or thermal.

3.1.1.2 *Discussion*—Electric blankets include resistant heat wires and can provide heat as well as thermal insulation.

3.1.2 *delicate or gentle cycle, n*—in washing machines, a cycle in which agitation is slow and time is reduced.

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

4. Significance and Use

4.1 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.

4.2 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.

4.2.1 In such cases, any references to the specification shall specify that: "This fabric meets ASTM Specification D 3993 except for the following characteristic(s)."

4.3 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 4.2, ultimate consumer demands dictate varying performance parameters for any particular style of fabric.

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

5. Sampling

5.1 Tests shall be performed on the fabric as it will reach the user.

5.2 Unless otherwise agreed upon, as when specified in an

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*, Vol 07.01.

³ Available from American Association of Textile Chemists and Colorists, P.O. Box 12215, Research Triangle Park, NC 27709.