



Standard Performance Specification for Woven Institutional Dish, Huck, and Terry Bath Towel Fabrics¹

This standard is issued under the fixed designation D 4152; 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.

^{ε1} NOTE—Editorial changes were made throughout in February 1993.

1. Scope

1.1 This performance specification covers woven dish, huck and terry bath towel fabrics as used in hotels, hospitals, industrial and other institutional establishments.

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

1.3 These requirements are not applicable to woven terry fabrics used for apparel.

2. Referenced Documents

2.1 ASTM Standards:

D 123 Terminology Relating to Textiles²

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

D 2905 Practice for Statements on Number of Specimens for Textiles²

2.2 AATCC Methods:³

8-1977 Colorfastness to Crocking: AATCC Crockmeter Method

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

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

61-1980 Colorfastness to Washing, Domestic, and Laundering, Commercial: Accelerated

96-1980 Dimensional Changes in Laundering of Woven and Knitted Textiles Except Wool

97-1978 Noncotton Content of Bleached Cotton Textiles

116-1977 Colorfastness to Crocking: Rotary Vertical Crockmeter Method

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 the ASTM test methods that prevail in this document are referenced in Section 7.

3. Terminology

3.1 *General*—For definitions of 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 4152 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 consumer.

5.2 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.

5.2.1 If there has been no prior agreement and the test method does not specify the number of specimens, use the procedures in Practice D 2905 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.

6. Specification Requirements

6.1 The properties of woven fabrics for institutional dish, huck and terry bath towels shall conform to the specification requirements in Table 1.

¹ This performance specification is under the jurisdiction of ASTM Committee D-13 on Textiles and is the direct responsibility of Subcommittee D 13.56 on Performance Standards for Textile Fabrics.

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² Annual Book of ASTM Standards, Vol 07.01.

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