



Standard Performance Specification for Woven and Knitted Shower Curtains for Institutional and Household Use¹

This standard is issued under the fixed designation D 5378; 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 specification covers the evaluation of specific performance characteristics of importance in woven and knitted shower curtains for use in institutional and household environments.

1.2 This specification may be used by mutual agreement between purchaser and supplier to establish purchasing specification requirements.

1.3 The requirements in Table 1 apply to the length and width directions for those properties where fabric direction is pertinent.

1.4 This specification is not applicable for coated, laminated or vinyl product.

1.5 *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:

- D 123 Terminology Relating to Textiles²
- D 629 Test Methods for Quantitative Analysis of Textiles²
- D 1776 Practice for Conditioning Textiles for Testing²
- D 2905 Standard Practice for Statements on Number of Specimens for Textiles²
- D 3136 Terminology for Care Labels for Consumer Textile and Leather Product²
- D 3786 Bursting Strength, Hydraulic, of Knitted and Nonwoven Fabrics—Diaphragm Bursting Strength Tester Method³
- D 3882 Test Method for Bow Skewness (Bias) in Woven and Knitted Fabrics³
- D 3938 Guide for Evaluation of Textile Products in Relation to Refurbishing Described on Care Labels³
- D 5034 Standard Test Method for Breaking Force and Elongation of Textile Fabrics (Grab Test)³

¹ This performance specification is under the jurisdiction of ASTM Committee D-13 on Textiles and is the direct responsibility of Subcommittee D13.63 on Home Furnishings.

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² Annual Book of ASTM Standards, Vol 07.01.

³ Annual Book of ASTM Standards, Vol 07.02.

TABLE 1 Specification Requirements

NOTE 1—Class in a, b, and c, is based on a numerical scale of 5 for negligible or no color change or color transfer to 1 for severe color change or color transfer.

Characteristic	Requirement	Section
Breaking Force (Load) (CRT)		7.1.1
Dry	178 N (40 lbf), minimum	
Wet	89 N (20 lbf), minimum	
Bursting Force (Knit Fabrics)	178 N (40 lbf), minimum	7.1.2
Nonfibrous Material	3.0 % maximum	7.1.3
Dimensional Change (L× W)	3.0 % maximum	7.1.4
Fabric Appearance	5A 3.0 minimum	7.2.1
Bow and Skewness	4.0 % maximum	7.1.5
Colorfastness:		
Laundering		7.1.6.1
Shade change	Class 4 ^A minimum	
Stain	Class 3 ^B minimum	
Crocking		7.1.6.2
Dry	Class 4 ^C minimum	
Wet	Class 4 ^C minimum	
Light (20 AATCC FU) (xenon arc)	Step 4 ^A minimum	7.1.6.3
Water Resistance		7.1.7
Categories based on minimum time for		
1-g weight		
2 ft (600 mm)	30 s shower	
2 ft (600 mm)	2 minute rain	
3 ft (915 mm)	5 minute storm	
Flammability	Pass	7.1.8
Appearance Retention	Satisfactory	7.2.1

^AAATCC Gray Scale for Color Change.

^BAATCC Gray Scale for Staining.

^CAATCC Chromatic Transference Scale.

2.2 AATCC Methods:⁴

- 8 Colorfastness to Crocking
- 16a Colorfastness to Light: Carbon Arc Lamp Continuous Light
- 16E Colorfastness to Light: Water Cooled Xenon-Arc, Continuous Light
- 35 Water Resistance: Rain Test
- 61 Colorfastness to Washing, Domestic and Laundering Commercial, Accelerated
- 88B Appearance of Seams in Wash and Wear Items After Home Laundering
- 135 Dimensional Changes in Automatic Home Laundering of Woven or Knitted Fabrics

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