



Standard Specification for Knitted Upholstery Fabrics for Indoor Furniture¹

This standard is issued under the fixed designation D 4771; 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 reappraisal. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reappraisal.

1. Scope

1.1 This specification covers the performance requirements for knitted upholstery fabrics as used in the manufacture of new indoor furniture for general domestic use. These requirements apply to both the wale and course directions for those factors where each fabric direction is pertinent.

1.2 This specification is not applicable to fabrics used in contract, porch, deck, or lawn furniture; nor for woven fabrics, bonded or laminated fabrics, or surface-coated fabrics (such as vinyls and urethanes).

1.3 The following safety hazards caveat pertains only to the test methods described in 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.* See Note 2.

2. Referenced Documents

2.1 ASTM Standards:

D 123 Terminology Relating to Textiles²
D 2905 Practice for Statements on Number of Specimens for Textiles²

D 4033 Test Method for Resistance to Yarn Slippage at the Sewn Seam in Upholstery Fabrics (Dynamic Fatigue Method)³

2.2 AATCC Methods:⁴

8 Colorfastness to Crocking: AATCC Crockmeter Method
16 Colorfastness to Light
23 Colorfastness to Burnt Gas Fumes
107 Colorfastness to Water
116 Colorfastness to Crocking: Rotary Vertical Crockmeter Method
129 Colorfastness to Ozone in the Atmosphere Under High Humidities
Evaluation Procedure No. 1 Gray Scale for Color Change
Evaluation Procedure No. 2 Gray Scale for Staining

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.

Current edition approved May 15, 1995. Published July 1995. Originally published as D 4771 – 88. Last previous edition D 4771 – 94.

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

³ *Annual Book of ASTM Standards*, Vol 07.02.

⁴ *AATCC Technical Manual*, available from the American Association of Textile Chemists and Colorists, P.O. Box 12215, Research Triangle Park, NC 27709.

Evaluation Procedure No. 3 AATCC Chromatic Transference Scale

2.3 Federal Standard:

16CFR, Chapter II-Consumer Product Safety Commission, Subchapter D-Flammable Fabrics Act Regulations⁵

2.4 Military Standard:

MIL-STD-105D Sampling Procedures and Tables for Inspection by Attributes⁶

2.5 Other Documents:

Joint Industry Knit Upholstery Fabric Standards and Guidelines⁷

Guides for the Household Furniture Industry⁸

California Bulletin 117⁹

UFAC Fabric Classification Test Method for Cigarette Smolder Resistance¹⁰

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 ¹¹

3. Terminology

3.1 Definitions:

3.1.1 *contract furniture, n*—furniture manufactured for use in non-household applications.

3.1.2 *indoor furniture, n*—furniture manufactured for use in the interior of a building.

3.1.3 *upholstery fabric, n*—the exterior fabric covering applied to a furniture unit.

3.1.4 *upholstered furniture, n*—furniture covered with such materials as textiles or leather and generally with padding or cushions, or both.

3.2 For definitions of other textile terms used in this specification, refer to Terminology D 123. Definitions found in

⁵ Available from Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

⁶ Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094, Attn: NPODS.

⁷ Issued 1980, available from American Furniture Manufacturers Association, Box HP-7, High Point, NC 27261.

⁸ Available from the Bureau of Consumer Protection, Federal Trade Commission, Washington, DC 20580. Promulgated by the FTC on Dec. 21, 1973, to be effective on March 21, 1974.

⁹ Available from California Department of Consumer Affairs, Bureau of Home Furnishings, 3485 Orange Grove Ave., North Highlands, CA 95660.

¹⁰ Available from UFAC Central, Box 2436, High Point, NC 27261.

¹¹ The carbon-arc and xenon fade-ometers available from the Atlas Electric Devices Co., 4114 N. Ravenswood Ave., Chicago, IL 60613, have been found satisfactory for this test method.