



Designation: ~~D6719-10~~ Designation: D6719 - 12

# Standard Guide for Standard Test Methods and Practices for Evaluating Pile Yarn Floor Covering<sup>1</sup>

This standard is issued under the fixed designation D6719; 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 ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

## 1. Scope

1.1 This guide provides users with an index of procedures in the form of test methods, practices, and related documents that are currently used in industry for determination of properties of pile yarn floor covering. This guide is not considered as all-inclusive for testing procedures related to pile yarn floor covering.

1.1.1 It is the responsibility of the user to choose from this guide those procedures that provide test information on properties of interest for pile yarn floor covering that relate to its physical and esthetic properties and performance.

1.1.2 Procedures for particular properties appear in the following sections:

Property	Section
Surface Appearance Change	8.1-8.31, 8.35
Antimicrobial	8.5
Binding Sites	8.6
Backing Characteristics	8.7
<del>Colorfastness</del>	<del>8.8-8.12</del>
<u>Colorfastness to Light, Crocking, Ozone, Water, and Oxides of Nitrogen</u>	<u>8.8-8.12</u>
Carpets, Cleaning	8.13 and 8.14
Conditioning	7
Delamination Resistance	8.15
Fiber Analysis	8.16
Flammability	8.17-8.20
Pile Thickness	8.21
Mass per Unit Area	8.22
Soiling	8.23-8.25
Stain Resistance	8.26
Static	8.27
Tuft Bind	8.28
Tuft Height	8.29
Tuft Element Length	8.30
Durability	8.32
Edge Ravel	8.33
Dimensional Stability	8.34
<u>Fluorine Content</u>	<u>8.36</u>
<u>Colorfastness to Sodium</u>	<u>8.37</u>

1.2 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.2.1 Some of the listed procedures may cite other units as standard. In this event, language of the procedure is controlling.

1.3 *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:*<sup>2</sup>

D123 [Terminology Relating to Textiles](#)

<sup>1</sup> This guide is under the jurisdiction of ASTM Committee D13 on Textiles and is the direct responsibility of Subcommittee D13.21 on Pile Floor Coverings. Current edition approved ~~June~~ July 1, 2010; ~~2012~~. Published ~~July 2010~~; September 2012. Originally approved in 2001. Last previous edition approved in ~~2007~~ 2010 as D6719 - ~~10~~ 7. DOI: 10.1520/D6719-10~~2~~.

<sup>2</sup> For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

- D629 Test Methods for Quantitative Analysis of Textiles  
 D1335 Test Method for Tuft Bind of Pile Yarn Floor Coverings  
 D1776 Practice for Conditioning and Testing Textiles  
 D2646 Test Methods for Backing Fabric Characteristics of Pile Yarn Floor Coverings  
 D2859 Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials  
 D3936 Test Method for Resistance to Delamination of the Secondary Backing of Pile Yarn Floor Covering  
 D5251 Practice for the Operation of the Tetrapod Walker Drum Tester  
 D5252 Practice for the Operation of the Hexapod Tumble Drum Tester  
 D5417 Practice for Operation of the Vettermann Drum Tester  
 D5684 Terminology Relating to Pile Floor Coverings  
 D5793 Test Method for Binding Sites per Unit Length or Width of Pile Yarn Floor Coverings  
 D5823 Test Method for Tuft Height of Pile Floor Coverings  
 D5848 Test Method for Mass Per Unit Area of Pile Yarn Floor Coverings  
 D6119 Practice for Creating Surface Appearance Changes in Pile Yarn Floor Covering from Foot Traffic  
 D6283 Test Method for Tuft Element Length of Uncoated Pile Yarn Floor Coverings  
 D6540 Test Method for Accelerated Soiling of Pile Yarn Floor Covering  
 D6859 Test Method for Pile Thickness of Finished Level Pile Yarn Floor Coverings  
 D6962 Practice for Operation of a Roller Chair Tester for Pile Yarn Floor Coverings  
 D7241 Test Method for Pile Thickness of Finished Multilevel Pile Yarn Floor Covering  
 D7267 Test Method for Edge Ravel Resistance of Finished Loop Pile, Pile Yarn Floor Covering  
 D7330 Test Method for Assessment of Surface Appearance Change in Pile Floor Coverings Using Standard Reference Scales  
 D7570 Test Method for Evaluation of Dimensional Stability of Pile Yarn Floor Covering  
 E122 Practice for Calculating Sample Size to Estimate, With Specified Precision, the Average for a Characteristic of a Lot or Process  
 E648 Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source  
 E662 Test Method for Specific Optical Density of Smoke Generated by Solid Materials
- 2.2 *AATCC Test Methods:*<sup>3</sup>
- 16 Colorfastness to Light  
 20 Fiber Analysis: Qualitative  
 20A Fiber Analysis: Quantitative  
 107 Colorfastness to Water  
 121 Carpet Soiling: Visual Rating Method  
 122 Carpet Soiling: Service Soiling Method  
 129 Colorfastness to Ozone in the Atmosphere Under High Humidities  
 134 Electrostatic Propensity of Carpets  
 138 Cleaning: Washing of Textile Floor Coverings  
 164 Colorfastness to Oxides of Nitrogen in the Atmosphere Under High Humidities  
 165 Colorfastness to Crocking: Carpets Crockmeter Method  
 171 Carpets: Cleaning of; Hot Water Extraction Method  
 174 Antimicrobial Activity Assessment of Carpets  
 175 ~~Stain Resistance: Pile Floor Coverings~~ Stain Resistance: Pile Floor Coverings  
 189 Fluorine Content of Carpet Fibers  
 196 Colorfastness to Sodium Hypochlorite of a Textile Floor Covering
- 2.3 *Federal Regulations:*<sup>4</sup>
- Title 16, Chapter II, Part 1630 and 1631 Standard for the Surface Flammability of Carpets and Rugs (FF 1-70)

### 3. Terminology

3.1 For definitions of terms relating to Pile Floor Coverings, D13.21, refer to Terminology D5684.

3.1.1 The following terms are relevant to this standard: backing, backing fabric, binding sites, carpet, change in surface appearance, durability, finished, finished pile yarn floor covering, floor covering, pile, pile yarn floor covering, resistance to delamination, soiling, textile floor covering, total mass, tuft bind, tuft element, tuft height, tufted fabric.

3.2 For all other terminology related to textiles, refer to Terminology D123.

### 4. Significance and Use

4.1 This guide is useful to select test methods and or practices that are commonly used in industry for evaluating pile yarn floor

<sup>3</sup> Available from American Association of Textile Chemists and Colorists (AATCC), P.O. Box 12215, Research Triangle Park, NC 27709, <http://www.aatcc.org>.

<sup>4</sup> Available from U.S. Government Printing Office Superintendent of Documents, 732 N. Capitol St., NW, Mail Stop: SDE, Washington, DC 20401, <http://www.access.gpo.gov>.