



Designation: ~~D6719-07~~ Designation: D6719 - 10

# 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
<del>Surface Appearance Change</del>	<del>8.1-8.32</del>
<u>Surface Appearance Change</u>	<u>8.1-8.31, 8.35</u>
Antimicrobial	8.5
Binding Sites	8.6
Backing Characteristics	8.7
Colorfastness	8.8-8.12
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
<del>Soiling</del>	<del>8.23-8.26</del>
<u>Soiling</u>	<u>8.23-8.25</u>
<del>Stain Resistance</del>	<del>8.27</del>
<u>Stain Resistance</u>	<u>8.26</u>
<del>Static</del>	<del>8.28</del>
<u>Static</u>	<u>8.27</u>
<del>Tuft Bind</del>	<del>8.29</del>
<u>Tuft Bind</u>	<u>8.28</u>
<del>Tuft Height</del>	<del>8.30</del>
<u>Tuft Height</u>	<u>8.29</u>
<del>Tuft Element Length</del>	<del>8.31</del>
<u>Tuft Element Length</u>	<u>8.30</u>
<del>Durability</del>	<del>8.33</del>
<u>Durability</u>	<u>8.32</u>
Edge Ravel	8.33
Dimensional Stability	8.34

~~1.2 In general, values stated in SI units are to be regarded as the standard. Values given in parentheses are for information only and may be approximate.~~

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.*

<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 Jan. 1, 2007. Published February 2007. Originally published in 2001. Last previous edition approved in 2005 as D6719-05. DOI: 10.1520/D6719-07.

Current edition approved June 1, 2010. Published July 2010. Originally approved in 2001. Last previous edition approved in 2007 as D6719 - 07. DOI: 10.1520/D6719-10.

## 2. Referenced Documents

### 2.1 ASTM Standards:<sup>2</sup>

- D123 Terminology Relating to Textiles
- 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: Quantitative<sup>3</sup>~~ Fiber Analysis: Qualitative
- 20A Fiber Analysis: Quantitative
- 107 Colorfastness to Water
- 121 Carpet Soiling: Visual Rating Method
- ~~122 Carpet Soiling: Service Soiling Method<sup>3</sup>~~
- ~~123 Carpet Soiling: Accelerated Soiling Method<sup>3</sup>~~ 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-AATCC Carpets~~ Crockmeter Method
- 171 Carpets: Cleaning of; Hot Water Extraction Method
- 174 Antimicrobial Activity Assessment of Carpets
- 175 Stain Resistance: Pile Floor Coverings

### 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.

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

<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>.