

Designation: D 6119 - 03

Standard Practice for Creating Surface Appearance Changes in Pile Yarn Floor Covering from Foot Traffic¹

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1. Scope

- 1.1 This practice covers the trafficking of pile yarn floor coverings in a laboratory in order to effect a change in surface appearance as a result of exposure to foot traffic under controlled conditions. A separate test method covers the assessment of surface appearance change using the CRI Reference Scales.
- 1.2 This practice is applicable to most changes in surface appearance observed in all types of carpet that are intended for residential or commercial use. It eliminates change in appearance associated with soiling by focusing on appearance change due to matting, flattening, or change in pile fiber configuration. Although "pile reversal" or "watermarking" is occasionally visible, this practice is not a reliable method for producing this phenomenon.
- 1.3 This practice may be used by mutual agreement between the purchaser and supplier to set purchasing specifications.
- 1.4 The values stated in SI units are to be regarded as the standard. The inch-pound units given in parentheses are for information only.
- 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. Specific precautionary statements are given in Section 7.

2. Referenced Documents

- 2.1 ASTM Standards:
- D 123 Terminology Relateing to Textiles²
- D 1776 Practice for Conditioning and Testing Textiles²
- D 5684 Terminology Relating to Pile Yarn Floor Coverings³
- 2.2 TM-101 CRI Technical Bulletin:

Assessment of Carpet Surface Appearance Change Using

CRI Reference Scales⁴

3. Terminology

- 3.1 Definitions:
- 3.1.1 change in surface appearance, n—for pile yarn floor coverings, the cumulative change in surface appearance between unexposed and exposed specimens due to crushing, loss of tuft definition, and matting.
- 3.1.2 foot traffic units, n—for pile yarn floor coverings, the number of passes by human walkers over a specific group of specimens.
- 3.1.2.1 *Discussion*—Foot traffic units should not be taken as the actual number of times each specimen is stepped on, but rather as the number of times that persons pass a designated spot on the walking course.
- 3.1.3 For definitions of other terms relating to pile yarn floor coverings used in this practice, refer to Terminology D 5684. For definitions of other textile terms used in this practice, refer to Terminology D 123.

4. Summary of Practice

4.1 Specimens are exposed to a specified number of foot traffics under controlled conditions.

5. Significance and Use

- 5.1 By exposure to sufficient traffic, this practice can be applied to any pile yarn floor covering which undergoes changes in surface appearance.
- 5.1.1 This practice does not simulate surface appearance changes due to soiling, pivoting, or rolling traffic, or traffic on stairs.

6. Apparatus

- 6.1 *Area for Foot Traffic*—A room that meets the following conditions:
- 6.1.1 The floor must be level, rigid, and free of high and low areas. Tile, concrete, or wood are satisfactory. This area should be kept free of pedestrian traffic other than the designated walkers.

 $^{^{\}rm 1}$ This practice is under the jurisdiction of ASTM Committee D13 on Textiles and is the direct responsibility of Subcommittee D13.21 on Pile Floor Coverings.

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² Annual Book of ASTM Standards, Vol 07.01.

³ Annual Book of ASTM Standards, Vol 07.02.

⁴ Available from CRI, P.O. Box 2048, Dalton, GA 30722.