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Standard Test Method for SHORN PILE MASS OF FINISHED TUFTED PILE YARN FLOOR COVERING¹

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1. Scope

1.1 This test method covers the determination of the yarn mass per unit area above a stubble height of 1.3 mm (0.050 in.) in finished tufted pile yarn floor covering.

1.2 This test method is applicable to all finished tufted pile yarn floor covering.

1.3 This test method is not applicable to tufted floorcovering in which either the latex or needle-punched fiber in the primary backing protrudes more than 1.3 mm (0.050 in.) above the primary backing.

2. Applicable Document

2.1 *ASTM Standard:*

D 123 Terminology Relating to Textiles²

D 418 Methods of Testing Pile Yarn Floor Covering Construction

3. Definitions

3.1 *backing, primary, n.*—for tufted pile yarn floor covering, the fabric through which the pile yarn is carried by needles to form tufts: the backing fabric.

3.2 *binding site, n.*—for pile yarn floor covering, a place at which the pile yarn is or can be bound to the backing fabric.

3.3 *direction, lengthwise, n.*—in textiles, the direction in a machine made fabric parallel to the direction of movement the fabric followed in the manufacturing machine. (Syn.—*machine direction* and *warpwise*.)

3.4 *direction, widthwise, n.*—in textiles, the direction in a machine made fabric perpendicular to the direction of movement the fabric followed in the manufacturing machine. (Syn.—*cross machine direction*, *weftwise*, and *fillingwise*.)

3.5 *floor covering, finished pile yarn, n.*—pile

yarn floor covering which has undergone all steps of the manufacturing process.

3.6 *floor covering, pile yarn, n.*—a textile product in which yarn or yarn segments are attached intermittently to a backing fabric so as to project above the backing fabric to form a pile; the yarn entering the backing fabric substantially perpendicular to the plane of the backing fabric.

3.7 *gage, n.*—of tufted pile yarn floor covering, the average distance between adjacent binding sites in the widthwise direction.

3.8 *pile, n.*—for pile yarn floor covering, the textured surface composed of many tuft legs bound to a backing fabric in an orderly and repetitive array.

3.9 *pile, multilevel, n.*—for pile yarn floor covering, pile in which some tuft legs are substantially longer than others.

3.10 *pile, shorn, n.*—pile that is removed when a specimen is sheared.

3.11 *stubble, n.*—in shorn floor covering, the portion of the pile that remains after shearing.

3.12 *stubble height, n.*—the distance the stubble extends above the backing fabric.

3.13 *tuft, n.*—for pile yarn floor covering, all the yarn bound to the backing fabric at one binding site.

3.14 *wave variation, n.*—for pile yarn floor covering, a patterned displacement of the tuft binding sites from a straight line in the lengthwise direction.

3.15 For definitions of other textile terms used

¹ This test method is under the jurisdiction of ASTM Committee D-13 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*, Vols 07.01 and 07.02.