



Designation: F 387 – 9302

Standard Test Method for Measuring Thickness of Resilient Floor Covering With Foam Layer¹

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This standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 ~~This test method covers the determination of the thickness or caliper of resilient non-textile floor covering is containing a basic physical property. However, conventional means of measuring the thickness, such as a hand micrometer or regular dial micrometer, are not applicable for foam-layer products due to the error from compressing the foam. This test method minimizes this type part of measuring error and still retains the convenience and speed of measurement as opposed to a micrometer caliper or other similar device.~~ construction.

1.2 ~~This standard does not purport to address all of the safety problems, 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. Significance and Use

2.1 This test method

2.1 ~~The overall thickness or caliper of resilient flooring is a basic physical property. However, conventional means of measuring the thickness, such as a hand micrometer or regular dial micrometer, are not applicable for foam-layer products due to measure the vertical distance between error from compressing the backing surface foam. This test method minimizes this type of measuring error and an unembossed or flat area on still retains the wear surface. This distance or convenience and speed of measurement.~~

2.2 ~~Measurement of the product thickness is an essential parameter may be required for quality control purposes or to ensure compliance with applicable specifications.~~

3. Apparatus

3.1 ~~The apparatus shall consist of a comparator stand having a flat anvil base at least 6 in. (15 cm) square, equipped with a dial micrometer thickness gage graduated to 0.001 in. (0.02 mm). The gage shall be equipped with a flat presser foot 0.250 ± 0.01 in. (6.35 ± 0.5 mm) in diameter. The foot shall exert a total force of 1 ± 0.1 ozf (0.28 ± 0.03 N) at all points within the measuring range. The force shall be obtained by means of a weight. The maximum.~~

3.1.1 ~~The contact surfaces of the anvil and thickness gage presser foot shall be parallel within 0.0001 in. (0.003 mm).~~

4. Test Specimen

4.1 ~~The specimen shall be approximately 2 by 4 in. (50 by 100 mm).~~

5. Calibration

5.1 The calibration of

5.1 ~~Calibrate the gage shall be verified by means of gage blocks or shim stock of known thickness appropriate to the thickness of the material being measured.~~

6. Conditioning

6.1 ~~Condition the specimens at least 24 h at 73.4 ± 3.6°F (23 ± 2°C) and 50 ± 5 % relative humidity. Test at humidity and test in the same conditions, environment.~~

¹ This test method is under the jurisdiction of ASTM Committee F-6 F06 on Resilient Floor Coverings and is the direct responsibility of Subcommittee F06.20 on Specialty Resilient Flooring for Human Fatigue and Injury Reduction—Test Methods—Products Construction/Materials.

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