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Machine-made textile floor coverings — Determination of thickness

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FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up has the right to be represented on that Committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

Prior to 1972, the results of the work of the Technical Committees were published as ISO Recommendations; these documents are now in the process of being transformed into International Standards. As part of this process, International Standard ISO 1765 replaces ISO Recommendation R 1765-1971, drawn up by Technical Committee ISO/TC 38, *Textiles.*

The Member Bodies of the following countries approved the Recommendation :

Australia	India	Romania
Austria	Iran	South Africa, Rep. of
Belgium	Israel	Spain
Brazil	Italy	Sweden
Canada	Japan	Switzerland
Denmark	Netherlands	Turkey
Egypt, Arab Rep. of	New Zealand	United Kingdom
France	Norway	U.S.A.
Germany	Peru	U.S.S.R.
Greece	Poland	
Hungary	Portugal	

No Member Body expressed disapproval of the Recommendation.

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Machine-made textile floor coverings — Determination of thickness

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies a basic method for the determination of the thickness of machine-made textile floor coverings. Where areas of different thickness or construction exist, these should be tested separately if possible.

This method forms an integral part of other methods of test for textile floor coverings and the result of this test by itself cannot be used as an indication of the quality of the product.

The method is applicable to all machine-made textile floor coverings.

2 REFERENCES

ISO 139, *Textiles — Standard atmospheres for conditioning and testing.*

ISO 1957, *Machine-made textile floor coverings — Sampling and cutting specimens for physical tests.*

3 DEFINITION

For the purposes of this International Standard the following definition applies :

thickness (of machine-made textile floor coverings) : The distance between a reference plate on which the specimen rests and a parallel presser-foot applying a given pressure to the specimen. Ordinarily the thickness of a machine-made textile floor covering without compression is measured at the standard pressure of 2,0 kPa* applied to a circle of area between 300 and 1 000 mm^2 within a larger area.

4 PRINCIPLE

The thickness of a specimen of machine-made textile floor covering is measured as the distance between the reference plate on which the specimen rests and a parallel circular presser-foot exerting a specified pressure on an area of defined size within a larger area of the machine-made textile floor covering. Textile floor coverings without pile, made of consolidated materials, are tested using a guard ring.

5 APPARATUS

5.1 Instrument for measuring the thickness, having a circular plane presser-foot of area between 300 and 1 000 mm^2. It shall be capable of exerting a pressure normal to the plane of the specimen of 2,0 ± 0,2 kPa and shall have a means of measuring thickness with an accuracy of 0,1 mm over a range of 25 mm. The movement of the presser-foot shall be normal to the plane of the textile floor covering. The reference plate on which the specimen rests shall be plane, at least 125 mm × 125 mm in size, and parallel to the presser-foot to within 1 part in 500.

5.2 Circular guard ring, mass 1 000 g, external diameter not greater than 125 mm and internal diameter of $d + 40$ mm, d being the diameter of the presser-foot, such that a pressure of at least 1 kPa is exerted. A throat of 40 mm width may be cut from the guard ring.

NOTE — This is required only for testing products without pile, made from consolidated materials.

6 ATMOSPHERE FOR CONDITIONING AND TESTING

The specimens shall be conditioned and the test conducted in one of the standard atmospheres for conditioning and testing of textiles specified in ISO 139.

7 TEST SPECIMENS

7.1 Sampling

Select the specimens according to the directions in ISO 1957.

* 1 kPa = 10^3 N/m^2