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Textile floor coverings — Water impermeability test

Revêtements de sol textiles — Essai d'imperméabilité à l'eau

ICS: 59.080.60

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 219

Textile floor coverings — Water impermeability test

1 Scope

This International Standard specifies a laboratory test method for determining the water impermeability of wall-to-wall textile floor coverings.

This method is not applicable for installed textile floor covering tiles.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

ISO 2424, *Textile floor coverings — Vocabulary*

ISO 1957, *Machine made textile floor coverings – Selection and cutting of specimens for physical tests*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 2424 apply.

4 Principle

A specified amount of coloured liquid is poured onto a textile floor covering, where it is contained in a concentrated area for 24 hours. The floor covering is then evaluated for liquid penetration through the product.

5 Materials

5.1 Methylene blue solution (1 gram per litre) (CAS number 61-73-4)

5.2 Open-ended cylinder, 110 mm diameter and 110mm high, non-water permeable, lightweight material, e.g. PVC

5.3 White tissue paper

5.4 Knife

6 Sampling and selection of specimen

Select 3 specimens from the sample in accordance with ISO 1957, each specimen measuring a minimum of 350 x 350 mm.

7 Conditioning and testing

The specimens shall be conditioned and the test conducted in the standard atmosphere for testing textiles of (65 ± 4) % relative humidity and (20 ± 2) °C, as specified in EN ISO 139.

8 Procedure

- 1) Each specimen, use surface uppermost, is laid on top of a clean white tissue on a horizontal surface.
- 2) Place the cylinder (see 5.2.) in the middle of the textile floor covering specimen and pour 100 ml of the coloured liquid (see 5.1.) into the centre of the cylinder. Remove the cylinder as soon as the liquid solution has soaked into the textile floor covering.
- 3) The specimens are left to stand for 24 hours in the standard atmosphere before evaluation.

9 Assessment of the results

Assess the white tissue beneath each specimen for evidence of water penetration through the backing.

10 Expression of the results

Record for each specimen whether or not the sample showed water penetration.

Record the conclusion of water impermeability if none of the specimens showed water penetration.

11 Test report

The test report shall contain the following information:

- a) A statement that the tests were performed in accordance with this International Standard, ISO 20251;
- b) The date of the test;
- c) Complete identification of the product tested, including type, source, colour, and manufacturer's reference numbers;
- d) Previous history of the sample;
- e) Water permeability or impermeability of the examined textile floor covering;
- f) Any deviation from this standard, which may have affected the results.

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