INTERNATIONAL STANDARD

ISO 17984

First edition
2014-06-15

Machine-made textile floor coverings — Determination of dimensional changes after exposure to heat and/or water

Revêtements de sol textiles fabriqués à la machine — Détermination de la variation dimensionnelle après exposition à la chaleur et/ou à l'eau

Reference number
ISO 17984:2014(E)

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ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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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, *Floor coverings*.

This first edition of ISO 17984 cancels and replaces ISO/PAS 17984:2001.

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Introduction

When ISO/TC 38/SC 12 reviewed ISO 2551:1981, it decided that because the original method gave rise to technical difficulties, any revision should incorporate a number of test method options for dimensional stability to heat, water and combined heat, and water and stability out of the plane. In order to establish the utility of this new approach, and to allow the precision of each test method to be established, it was decided to initially publish a document that would allow for further development based on some or all of these methods.

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Machine-made textile floor coverings — Determination of dimensional changes after exposure to heat and/or water

1 Scope

This International Standard specifies procedures for the determination of both planar and out-of-plane dimensional changes that take place when machine-made textile floor coverings are subjected to heat, water, or varied heat and water conditions.

The following methods are applicable to all machine-made textile floor coverings including those produced in tile form.

— Method 1: Determination of dimensional changes after exposure to heat.

— Method 2: Determination of dimensional changes after immersion in water.

— Method 3: Determination of dimensional changes due to the effects of varied heat and water conditions.

— Method 4: Dimensional changes out of the plane.

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

ISO 2424, *Textile floor coverings — Vocabulary*

3 Terms and definitions

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

4 Principle

Comparison is made between either planar or out-of-plane dimensions of a test specimen after conditioning in the standard atmosphere for testing textiles and after being subjected to either heat, water, or specified varied heat and water conditions.

5 Apparatus

5.1 Methods 1, 2, and 3

5.1.1 Instrument capable of measuring length to the nearest 0,1 mm, e.g. an optical bench or mechanical device with gauge.

5.1.2 Plate glass sheet, marginally smaller than the test specimen, or other means of keeping the specimen flat while measurements are made.

This will not be required if the instrument in 5.1.1 incorporates such a glass or metal plate.

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