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Textile floor coverings — Production of changes in appearance by means of Vettermann drum and hexapod tumbler tester

Revêtements de sol textiles — Production de changements d'aspect au moyen d'essais au tambour Vettermann et au tambour pour hexapode

Reference number
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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 third edition cancels and replaces the second edition (ISO 10361:2012), which has been technically revised.

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Introduction

This International Standard describes two instruments used for fatiguing textile floor covering specimens and producing changes in appearance in a laboratory simulation of wear.

This International Standard was originally published as a type 2 Technical Report. ISO/TC 219 decided to revise the document for publication as an International Standard.

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Textile floor coverings — Production of changes in appearance by means of Vettermann drum and hexapod tumbler tester

1 Scope

This International Standard describes procedures that use the mechanical action of a Vettermann drum or a hexapod tumbler tester to produce changes in appearance (surface structure and colour) to all types of textile floor coverings. It does not include pilling or colour changes due to other actions.

Changes produced by these drum testers are assessed in accordance with the applicable assessment standard.

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 868, *Plastics and ebonite — Determination of indentation hardness by means of a durometer (Shore hardness)*

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

ISO 2424, *Textile floor coverings — Vocabulary*

ISO 9405, *Textile floor coverings — Assessment of changes in appearance*

ISO 7619-1, *Rubber, vulcanized or thermoplastic — Determination of indentation hardness — Part 1: Durometer method (Shore hardness)*

3 Terms and definitions

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

4 Principle

A steel ball or a hexapod with studs rolls randomly inside a rotating drum which is lined with the textile floor covering specimens.

After fatiguing, the change in appearance of the specimens is assessed in accordance with the applicable assessment standard.

5 Method A — Vettermann drum method

5.1 Apparatus

5.1.1 Vettermann drum tester, with a metal drum of the following dimensions (see Figure 1):

— internal diameter: (730 ± 10) mm;

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