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Textile floor coverings — Test methods for the determination of fibre bind using a Modified Martindale Machine

Revêtements de sol textiles — Méthodes d'essai pour la détermination du défibrage en utilisant un appareillage de martindale modifié

Reference number
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Foreword

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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 11856 cancels and replaces ISO/PAS 11856:2003.

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Textile floor coverings — Test methods for the determination of fibre bind using a Modified Martindale Machine

1 Scope

The method in this International Standard uses a modified Martindale fabric abrasion machine to assess fibre loss in pile carpets by weighing the amount of fibre removed at specified intervals. It is applicable to all types of cut pile, wool-rich textile floor coverings.

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

ISO 2424, *Textile floor coverings — Vocabulary*

ISO 10361, *Textile floor coverings — Production of changes in appearance by means of Vettermann drum and hexapod tumbler tester*

ISO 12947-1, *Textiles — Determination of the abrasion resistance of fabrics by the Martindale method — Part 1: Martindale abrasion testing apparatus*

3 Terms and definitions

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

3.1
wool rich
textile floor covering with a pile content >50 % wool

4 Principle

Specimens are rubbed under a standard pressure in a prescribed manner against a hemispherical polyurethane stud. The fibre loss at specified intervals is collected, weighed, and the rate of mass loss calculated.

5 Apparatus

5.1 Martindale fabric abrasion machine, as specified in ISO 12947-1 with the following modifications:

a) the specimen is mounted on the base plate;

b) the original specimen head is replaced by a rubbing head comprising a hemispherical polyurethane stud as specified in ISO 10361, being screwed into a suitable spindle with a sufficient mass added, so that the total mass of the assembly is 750 g ± 20 g.

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