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Test of adhesives for floor covering - Determination of the electrical resistance of adhesive films and composites

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English Version

Test of adhesives for floor covering - Determination of the electrical resistance of adhesive films and composites

Essai des adhésifs pour revêtements de sol -
Détermination de la résistance électrique des composites
et films d'adhésif

Prüfung von Klebstoffen für Bodenbeläge - Bestimmung
des elektrischen Widerstandes von Klebstoff-Filmen und
Verbunden

This European Standard was approved by CEN on 28 November 2009.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

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Foreword

This document (EN 13415:2010) has been prepared by Technical Committee CEN/TC 193 “Adhesives”, the secretariat of which is held by AENOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 2010, and conflicting national standards shall be withdrawn at the latest by July 2010.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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1 Scope

This European Standard specifies a test method to measure the electrical resistance as a material physical parameter of an adhesive film and composites of floor covering material and adhesive film. The electrical resistance is reciprocal to the electrical conductivity. This laboratory method does not take account of all influences which may occur in practice.

In contrast to EN 1081, which applies to the determination of the electrical resistance of resilient floor coverings R_1 , R_2 and R_3 (see Clause 3), this method applies to the determination of the electrical resistance of adhesive films on glass and of composites of floor coverings, adhesively bonded to a fibre cement substrate R_4 and R_5 (see Clause 3).

2 Normative references

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

EN 923:2005+A1:2008, *Adhesives — Terms and definitions*

EN 1067, *Adhesives — Examination and preparation of samples for testing*

EN 1081:1998, *Resilient floor coverings — Determination of the electrical resistance*

EN ISO 9142, *Adhesives — Guide to the selection of standard laboratory ageing conditions for testing bonded joints (ISO 9142:2003)*

EN ISO 15605, *Adhesives — Sampling (ISO 15605:2000)*

ISO 554, *Standard atmospheres for conditioning and/or testing — Specifications*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 923:2005+A1:2008 and the following apply.

3.1

vertical resistance of floor covering

R_1

electrical resistance, measured at an unbounded floor covering sample between the tripod electrode on the surface of the floor covering and a second electrode on the opposite underside

3.2

resistance to ground

R_2

electrical resistance, measured at a bonded floor covering between a tripod electrodes on the surface of the floor covering and ground

3.3

point to point resistance

R_3

electrical resistance measured on the surface of a bonded floor covering between two tripod electrodes in a distance of 100 mm

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