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Irish Standard
I.S. EN ISO 19712-1:2013

Plastics - Decorative solid surfacing materials - Part 1: Classification and specifications (ISO 19712-1:2008)

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 19712-1

January 2013

ICS 83.140.20

English Version

Plastics - Decorative solid surfacing materials - Part 1: Classification and specifications (ISO 19712-1:2008)

Plastiques - Matériaux décoratifs massifs de revêtement de surface - Partie 1: Classification et spécifications (ISO 19712-1:2008)

Kunststoffe - Dekorative Mineralwerkstoffe - Teil 1: Klassifikation und Spezifikation (ISO 19712-1:2008)

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Foreword

The text of ISO 19712-1:2008 has been prepared by Technical Committee ISO/TC 61 “Plastics” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 19712-1:2013 by Technical Committee CEN/TC 249 “Plastics” the secretariat of which is held by NBN.

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of an identical text or by endorsement, at the latest by July 2013, and conflicting national standards shall be withdrawn at the latest by July 2013.

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INTERNATIONAL STANDARD

ISO 19712-1

First edition
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Part 1: Classification and specifications

Plastiques — Matériaux décoratifs massifs de revêtement de surface —

Partie 1: Classification et spécifications

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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ISO 19712-1 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 11, *Products*.

ISO 19712 consists of the following parts, under the general title *Plastics — Decorative solid surfacing materials*:

— *Part 1: Classification and specifications*

— *Part 2: Determination of properties — Sheet goods*

— *Part 3: Determination of properties — Solid surface shapes*

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Introduction

This part of ISO 19712 is intended for use by manufacturers, fabricators, installers and specifiers of solid surfacing materials.

The test methods and minimum performance values presented have been related as closely as possible to end-use applications. The fabrication method and technique employed may have a bearing on product performance and service.

The performance requirements include, but are not limited to, impact resistance, structure, renewability, colourfastness, cleanability stain resistance, water resistance, chemical resistance, bacterial and fungal resistance and other significant properties.

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Plastics — Decorative solid surfacing materials —

Part 1: Classification and specifications

SAFETY STATEMENT — Persons using this document should be familiar with normal laboratory practice, if applicable. This document does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user to establish appropriate safety and health practices and to ensure compliance with any regulatory conditions.

1 Scope

This part of ISO 19712 establishes a classification system for solid surfacing materials according to their performance.

This part of ISO 19712 also specifies property requirements for the various types of solid surfacing materials covered by this classification. Requirements are specified for the types that are most generally used, but additional types may be added as required. The specified limit values apply to the most commonly used types of material, but within each classification it may be possible to obtain variants having much higher performance values.

These materials are characterized by their homogeneous appearance, renewable surfaces and inconspicuous seams. They are generally classified as follows.

a) Solid surface sheets

Solid surfacing sheets are designed for horizontal, vertical, wet and dry applications.

b) Solid surface shapes

Solid surface shapes include, but are not limited to, kitchen sinks, bathroom sinks, vanity tops, showers, tubs and spas.

The important properties of solid surfacing materials are

— water resistance,

— thermal shock resistance,

— heat resistance,

— impact resistance,

— stain and chemical resistance,

— cigarette burn resistance,

— colour stability,

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— hardness,

— bacterial and fungal resistance,

— cleanability,

— hygiene,

— seamability,

— renewability.

2 Normative references

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

ISO 19712-2:2007, *Plastics — Decorative solid surfacing materials — Part 2: Determination of properties — Sheet goods*

ISO 19712-3:2007, *Plastics — Decorative solid surfacing materials — Part 3: Determination of properties — Solid surface shapes*

3 Terms and definitions

For the purposes of this part of ISO 19712, the following terms and definitions apply.

3.1
solid surfacing material
SSM
material, composed of polymeric materials together with pigments and fillers, intended to be cast into sheets or shaped products

NOTE 1 The material is of the same composition throughout the whole thickness of the sheet or product.

NOTE 2 Sheets and products made from SSMs are repairable and renewable to the original finish.

NOTE 3 SSMs can also be fabricated into continuous sheets with inconspicuous seams.

4 Requirements

4.1 Compliance

The performance requirements for solid surfacing materials shall meet the requirements of every property for which a value or range is specified in Clause 5.

Two methods of test are given for the measurement of resistance to wet heat, thermal cycle testing, chemical resistance, resistance to staining, resistance to cigarette burns. Three are given for the measurement of light fastness, resistance to dry heat. When there is a choice of method, material satisfying the requirements of either/any of the methods shall be deemed to comply with the specification for that property; however, the choice of method may be agreed upon between the interested parties. The method selected shall be stated in the test report.

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