



SLOVENSKI STANDARD
SIST EN ISO 9054:2000
01-maj-2000

Penjeni polimerni materiali - Trde pene - Preskušanje trdih integralnih pen z visoko gostoto (ISO 9054:1990)

Cellular plastics, rigid - Test methods for self-skinned, high-density materials (ISO 9054:1990)

Harte Schaumstoffe - Prüfverfahren für Integralschaumstoffe hoher Dichte (ISO 9054:1990)

iTeh STANDARD PREVIEW
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Plastiques alvéolaires rigides - Méthodes d'essai pour les produits à peau intégrée et à haute densité (ISO 9054:1990)

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Ta slovenski standard je istoveten z: EN ISO 9054:1999

ICS:

83.100

Penjeni polimeri

Cellular materials

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en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 9054

June 1999

ICS 83.100

English version

Cellular plastics, rigid - Test methods for self-skinned, high-
density materials (ISO 9054:1990)

Plastiques alvéolaires rigides - Méthodes d'essai pour les
produits à peau intégrée et à haute densité (ISO
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Integralschaumstoffe hoher Dichte (ISO 9054:1990)

This European Standard was approved by CEN on 6 May 1999.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Foreword

The text of the International Standard from Technical Committee ISO/TC 61 "Plastics" of the International Organization for Standardization (ISO) has been taken over as an European Standard by Technical Committee CEN/TC 249 "Plastics", the secretariat of which is held by IBN.

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 December 1999, and conflicting national standards shall be withdrawn at the latest by December 1999.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 9054:1990 has been approved by CEN as a European Standard without any modification.

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NOTE: Normative references to International Standards are listed in annex ZA (normative).

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Annex ZA (normative)
Normative references to international publications
with their relevant European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN</u> | <u>Year</u> |
|--------------------|-------------|---|---------------|-------------|
| ISO 178 | 1993 | Plastics - Determination of flexural properties | EN ISO 178 | 1996 |
| ISO 291 | 1997 | Plastics - Standard atmospheres for conditioning and testing | EN ISO 291 | 1997 |
| ISO 845 | 1988 | Cellular plastics and rubbers - Determination of apparent (bulk) density | EN ISO 845 | 1995 |
| ISO 868 | 1985 | Plastics and ebonite - Determination of indentation hardness by means of a durometer (Shore hardness) | EN ISO 868 | 1997 |
| ISO 1923 | 1981 | Cellular plastics and rubbers - Determination of linear dimensions | EN ISO 1923 | 1995 |
| ISO 6603-1 | 1985 | Plastics - Determination of multi-axial impact behaviour of rigid plastics - Part 1: Falling dart method | EN ISO 6603-1 | 1996 |
| ISO 6603-2 | 1989 | Plastics - Determination of multi-axial impact behaviour of rigid plastics - Part 2: Instrumented puncture test | EN ISO 6603-2 | 1996 |

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INTERNATIONAL
STANDARD

ISO
9054

First edition
1990-12-15

**Cellular plastics, rigid — Test methods for
self-skinned, high-density materials**

iTeh STANDARD PREVIEW
*Plastiques alvéolaires rigides — Méthodes d'essai pour les produits à
peau intégrée et à haute densité*
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Reference number
ISO 9054:1990(E)

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.

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.

International Standard ISO 9054 was prepared by Technical Committee ISO/TC 61, *Plastics*.

Annex A forms an integral part of this International Standard.

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International Organization for Standardization
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Cellular plastics, rigid — Test methods for self-skinned, high-density materials

1 Scope

This International Standard specifies the basic test procedures for the determination of the physical properties of self-skinned, high-density (typically having an overall density in excess of 100 kg/m³) rigid cellular plastic materials.

This standard also specifies the primary methods to be used for comparison of materials similar to self-skinned, high-density materials as defined in clause 3, based upon ISO test methods and using a standard test specimen thickness. It likewise permits the use of the same test methods, when found to be suitable, for the assessment of the properties of products of different thickness, when agreed upon by the supplier and the purchaser.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 75:1987, *Plastics and ebonite — Determination of temperature of deflection under load.*

ISO 178:1975, *Plastics — Determination of flexural properties of rigid plastics.*

ISO 291:1977, *Plastics — Standard atmospheres for conditioning and testing.*

ISO 845:1988, *Cellular plastics and rubbers — Determination of apparent (bulk) density.*

ISO 868:1985, *Plastics and ebonite — Determination of indentation hardness by means of a durometer (Shore hardness).*

ISO 1922:1981, *Cellular plastics — Determination of shear strength of rigid materials.*

ISO 1923:1981, *Cellular plastics and rubbers — Determination of linear dimensions.*

ISO 1926:1979, *Cellular plastics — Determination of tensile properties of rigid materials.*

ISO 4897:1985, *Cellular plastics — Determination of the coefficient of linear thermal expansion of rigid materials at sub-ambient temperatures.*

ISO 6603-1:1985, *Plastics — Determination of multi-axial impact behaviour of rigid plastics — Part 1: Falling dart method.*

ISO 6603-2:1989, *Plastics — Determination of multi-axial impact behaviour of rigid plastics — Part 2: Instrumented puncture test.*

ISO 8301:—¹⁾, *Thermal insulation — Determination of steady-state thermal resistance and related properties — Heat flow meter apparatus.*

ISO 8302:—¹⁾, *Thermal insulation — Determination of steady-state thermal resistance and related properties — Guarded hot plate apparatus.*

IEC 243:1967, *Recommended methods of test for electric strength of solid insulating materials at power frequencies.*

1) To be published.