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Plastics - Unsaturated-polyester powder moulding compounds (UP-PMCs) - Part 2: Preparation of test specimens and determination of properties (ISO 14530-2:1999)

Kunststoffe - Rieselfähige ungesättigte Polyester-Formmassen (UP-PMC) - Teil 2: Herstellung von Probekörpern und Bestimmung von Eigenschaften (ISO 14530-2:1999)

Plastiques - Poudres à mouler à base de polyester non saturé (UP-PMC) - Partie 2:
Préparation des éprouvettes et détermination des propriétés (ISO 14530-2:1999)
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Ta slovenski standard je istoveten z: **EN ISO 14530-2:1999**

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Thermosetting materials

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 14530-2

November 1999

ICS 83.080.10

English version

Plastics - Unsaturated-polyester powder moulding compounds
(UP-PMCs) - Part 2: Preparation of test specimens and
determination of properties (ISO 14530-2:1999)

Plastiques - Poudres à mouler à base de polyester non
saturé (UP-PMC) - Partie 2: Préparation des éprouvettes et
détermination des propriétés (ISO 14530-2:1999)

Kunststoffe - Rieselfähige ungesättigte Polyester-
Formmassen (UP-PMC) Teil 2: Herstellung von
Probekörpern und Bestimmung von Eigenschaften (ISO
14530-2:1999)

This European Standard was approved by CEN on 13 October 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 STANDARD PREVIEW

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

Corrected 2000-01-13

Foreword

The text of the International Standard ISO 14530-2:1999 has been prepared by Technical Committee ISO/TC 61 "Plastics" in collaboration with Technical Committee CEN/TC 249 "Plastics", the secretariat of which is held by DIN.

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 May 2000, and conflicting national standards shall be withdrawn at the latest by May 2000.

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.

iTeh STANDARD PREVIEW Endorsement notice

The text of the International Standard ISO 14530-2:1999 was approved by CEN as a European Standard without any modification.

[SIST EN ISO 14530-2:2000](#)

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.

Publication	Year	Title	EN	Year
ISO 60	1977	Plastics - Determination of apparent density of material that can be poured from a specified funnel	EN ISO 60	1999
ISO 62	1999	Plastics - Determination of water absorption	EN ISO 62	1999
ISO 75-2	1993	Plastics - Determination of temperature of deflection under load - Part 2: Plastics and ebonite	EN ISO 75-2	1996
ISO 120	1977	Plastics - Phenol-formaldehyde mouldings - Determination of free ammonia and ammonium compounds - Colorimetric comparison method	EN ISO 120	1998
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 295	1998	Plastics - Compression moulding of test specimens of thermosetting materials	EN ISO 295	1998
ISO 527-1	1993	Plastics - Determination of tensile properties - Part 1: General principles	EN ISO 527-1	1996
ISO 527-2	1993	Plastics - Determination of tensile properties - Part 2: Test conditions for moulding and extrusion plastics	EN ISO 527-2	1996
ISO 899-1	1993	Plastics - Determination of creep behaviour - Part 1: Tensile creep	EN ISO 899-1	1996
ISO 1183	1987	Plastics - Methods for determining the density of non-cellular plastics - Part 3: Gas pyknometer method	EN ISO 1183-3	1999
ISO 2039-1	1993	Plastics - Determination of hardness - Part 1: Ball indentation method	EN ISO 2039-1	1996
ISO 2818	1994	Plastics - Preparation of test specimens by machining	EN ISO 2818	1996

Publication	Year	Title	EN	Year
ISO 3167	1993	Plastics - Multipurpose-test specimens	EN ISO 3167	1996
ISO 3671	1976	Plastics - Aminoplastic moulding materials - Determination of volatile matter	EN ISO 3671	1998
ISO 4589-2	1996	Plastics - Determination of burning behaviour by oxygen index - Part 2: Ambient-temperature test	EN ISO 4589-2	1999
ISO 4614	1977	Plastics - Melamine-formaldehyde mouldings - Determination of extractable formaldehyde	EN ISO 4614	1999
ISO 6603-2	1989	Plastics - Determination of multiaxial impact behaviour of rigid plastics - Part 2 Instrumented puncture test	EN ISO 6603-2	1996
ISO 7808	1992	Plastics - Thermosetting moulding materials - Determination of transfer flow	EN ISO 7808	1998
ISO 8256	1990	Plastics - Determination of tensile-impact strength	EN ISO 8256	1996
ISO 14530-1	1999	Plastics - Unsaturated-polyester powder moulding compounds (UP-PMCs) - Part 1: Designation system and basis for specifications	EN ISO 14530-1	1999
ISO 14530-3	1999	Plastics - Unsaturated-polyester powder moulding compounds (UP-PMCs) - Part 3: Requirements for selected moulding compounds	EN ISO 14530-3	1999

INTERNATIONAL STANDARD

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Plastics — Unsaturated-polyester powder moulding compounds (UP-PMCs) —

Part 2:
Preparation of test specimens and
determination of properties

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Plastiques — Poudres à mouler à base de polyester non saturé
(UP-PMC) —

Partie 2: Préparation des éprouvettes et détermination des propriétés

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859c-1ef5d666f8fc/sist-en-iso-14530-2-2000](https://standards.iteh.ai/catalog/standards/sist/d3100280-b777-4d07-859c-1ef5d666f8fc/sist-en-iso-14530-2-2000)



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Tel. + 41 22 749 01 11
Fax + 41 22 734 10 79
E-mail copyright@iso.ch
Web www.iso.ch

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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 3.

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.

Attention is drawn to the possibility that some of the elements of this part of ISO 14530 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 14530-2 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 12, *Thermosetting materials*.

ISO 14530 consists of the following parts, under the general title *Plastics — Unsaturated-polyester powder moulding compounds (UP-PMCs)*:

THE STANDARD PREVIEW (standards.iteh.ai)

- *Part 1: Designation system and basis for specifications*
- *Part 2: Preparation of test specimens and determination of properties*
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<https://standards.iteh.ai/catalog/standards/sist/100280-b777-4d07-859c-1e5d666f8fc/sist-en-iso-14530-2-2000>
- *Part 3: Requirements for selected moulding compounds*

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Plastics — Unsaturated-polyester powder moulding compounds (UP-PMCs) —

Part 2: Preparation of test specimens and determination of properties

1 Scope

This part of ISO 14530 specifies the methods of preparation of test specimens and the test methods to be used in determining the properties of unsaturated-polyester powder moulding compounds (UP-PMCs). Requirements for handling test material and for conditioning both the test material before moulding and the specimens before testing are given here.

Procedures and conditions for the preparation of test specimens and procedures for measuring properties of the materials from which these specimens are made are given. Properties and test methods which are suitable and necessary to characterize PMCs are listed.

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The properties have been selected from the general test methods in ISO 10350-1. Other test methods in wide use for, or of particular significance to, PMCs are also included in this part of ISO 14530, as are the designatory properties found in ISO 14530-1.

[SIST EN ISO 14530-2:2000](https://standards.itel.it/standards/iso/14530-2:2000)

In order to obtain reproducible and comparable test results, it is necessary to use the methods of preparation and conditioning, the specimen dimensions and the test procedures specified herein. Values determined will not necessarily be identical to those obtained using specimens of different dimensions or prepared using different procedures.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 14530. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 14530 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 60:1977, *Plastics — Determination of apparent density of material that can be poured from a specified funnel.*

ISO 62:1999, *Plastics — Determination of water absorption.*

ISO 75-2:1993, *Plastics — Determination of temperature of deflection under load — Part 2: Plastics and ebonite.*

ISO 120:1977, *Plastics — Phenol-formaldehyde mouldings — Determination of free ammonia and ammonium compounds — Colorimetric comparison method.*

ISO 171:1980, *Plastics — Determination of bulk factor of moulding materials.*

ISO 178:1993, *Plastics — Determination of flexural properties.*