

SLOVENSKI STANDARD

SIST EN ISO 3672-2:2002

01-februar-2002

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Plastics - Unsaturated-polyester resins (UP-R) - Part 2: Preparation of test specimens
and determination of properties (ISO 3672-2:2000)

Kunststoffe - Ungesättigte Polyesterharze (UP-R) - Teil 2: Herstellung von Probekörpern
und Bestimmung von Eigenschaften (ISO 3672-2:2000)

Plastiques - Résines de polyesters non saturés (UP-R) - Partie 2: Préparation des
éprouvettes et détermination des propriétés (ISO 3672-2:2000)

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Thermosetting materials

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 3672-2

August 2001

ICS 83.080.10

English version

**Plastics - Unsaturated-polyester resins (UP-R) - Part 2:
Preparation of test specimens and determination of properties
(ISO 3672-2:2000)**

Plastiques - Résines de polyesters non saturés (UP-R) -
Partie 2: Préparation des éprouvettes et détermination des
propriétés (ISO 3672-2:2000)

Kunststoffe - Ungesättigte Polyesterharze (UP-R) - Teil 2:
Herstellung von Probekörpern und Bestimmung von
Eigenschaften (ISO 3672-2:2000)

This European Standard was approved by CEN on 17 June 2001.

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 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 Management Centre 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

Management Centre: rue de Stassart, 36 B-1050 Brussels

EN ISO 3672-2:2001 (E)

CORRECTED 2002-04-17

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 a 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 February 2002, and conflicting national standards shall be withdrawn at the latest by February 2002.

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 3672-2:2000 has been approved by CEN as a European Standard without any modifications.

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 (including amendments).

NOTE Where an International Publication has been modified by common modifications, indicated by (mod.), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
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 178	1993	Plastics - Determination of flexural properties	EN ISO 178	1996
ISO 179-1	2000	Plastics - Determination of Charpy impact properties — Part 1: Non-instrumented impact test	EN ISO 179-1	2000
ISO 291	1997	Plastics - Standard atmospheres for conditioning and testing	EN ISO 291	1997
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 604	1993	Plastics - Determination of compressive properties	EN ISO 604	1996
ISO 1675	1985	Plastics - Liquid resins - Determination of density by the pycnometer method	EN ISO 1675	1998
ISO 2114	2000	Plastics (polyester resins) and paints and varnishes (binders) - Determination of partial acid value and total acid value	EN ISO 2114	2000
ISO 2535	1997	Plastics - Unsaturated polyester resins - Measurement of gel time at 25 °C	EN ISO 2535	1998

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ISO 2554	1997	Plastics - Unsaturated polyester resins - Determination of hydroxyl value	EN ISO 2554	1998
ISO 2719	1988	Petroleum products and lubricants - Determination of flash point - Pensky-Martens closed cup method	EN 22719	1993
ISO 2818	1994	Plastics - Preparation of test specimens by machining	EN ISO 2818	1994
ISO 3167	1993	Plastics - Multipurpose-test specimens	EN ISO 3167	1996
ISO 3219	1993	Plastics - Polymers/resins in the liquid state or as emulsions or dispersions - Determination of viscosity using a rotational viscometer with defined shear rate	EN ISO 3219	1994
ISO 3521	1997	Plastics - Unsaturated polyester and epoxy resins - Determination of overall volume shrinkage	EN ISO 3521	1999
ISO 4589-2	1996	Plastics - Determination of burning behaviour by oxygen index - Part 2: Ambient-temperature test	EN ISO 4589-2	1999
ISO 4615	1979	Plastics - Unsaturated polyesters and epoxide resins - Determination of total chlorine content	EN ISO 4615	1999
ISO 6603-2	2000	Plastics - Determination of puncture impact behaviour of rigid plastics - Part 2: Instrumented puncture test	EN ISO 6603-2	2000
ISO 8256	1990	Plastics - Determination of tensile-impact strength	EN ISO 8256	1996
ISO 10350-1	1998	Plastics - Acquisition and presentation of comparable single-point data - Part 1: Moulding materials	EN ISO 10350-1	2000

INTERNATIONAL STANDARD

ISO
3672-2

First edition
2000-07-15

Plastics — Unsaturated-polyester resins (UP-R) —

Part 2: Preparation of test specimens and determination of properties

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Plastiques — Résines de polyesters non saturés (UP-R) —

Partie 2: Préparation des éprouvettes et détermination des propriétés

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Reference number
ISO 3672-2:2000(E)

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ISO 3672-2:2000(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.

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 3672 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 3672-2 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 12, *Thermosetting materials*.

ISO 3672 consists of the following parts, under the general title *Plastics — Unsaturated-polyester resins (UP-R)*:

- *Part 1: Designation system*
- *Part 2: Preparation of test specimens and determination of properties*

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Introduction

The purpose of this part of ISO 3672 is to designate procedures for the determination of intrinsic properties of unsaturated-polyester (UP) resins. It specifies procedures and conditions for the preparation of test specimens of unsaturated-polyester resins in a specified state, and methods for measuring their properties. Those properties and test methods which are suitable and necessary for characterizing unsaturated-polyester resins are listed. Because of the specificity of thermosetting resins like unsaturated-polyester resins, contrary to other plastic products, a distinction is made between the presentation of the properties before crosslinking (characteristics which are useful for processing) and after crosslinking (intrinsic characteristics).

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