



NSAI
Standards

Irish Standard
I.S. EN ISO 3673-2:2012

Plastics - Epoxy resins - Part 2: Preparation of test specimens and determination of properties of crosslinked epoxy resins (ISO 3673-2:2012)

I.S. EN ISO 3673-2:2012

Incorporating amendments/corrigenda/National Annexes issued since publication:

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This document replaces:
EN ISO 3673-2:1999

<i>This document is based on:</i>	<i>Published:</i>
EN ISO 3673-2:2012	24 July, 2012
EN ISO 3673-2:1999	15 December, 1999

This document was published
under the authority of the NSAI
and comes into effect on:
24 July, 2012

ICS number:
83.080.10

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I.S. EN ISO 3673-2:2012

EUROPEAN STANDARD

EN ISO 3673-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2012

ICS 83.080.10

Supersedes EN ISO 3673-2:1999

English Version

**Plastics - Epoxy resins - Part 2: Preparation of test specimens
and determination of properties of crosslinked epoxy resins (ISO
3673-2:2012)**

Plastiques - Résines époxydes - Partie 2: Préparation des
éprouvettes et détermination des propriétés des résines
époxydes réticulées (ISO 3673-2:2012)

Kunststoffe - Epoxidharze - Teil 2: Herstellung von
Probekörpern und Bestimmung von Eigenschaften von
vernetzten Epoxidharzen (ISO 3673-2:2012)

This European Standard was approved by CEN on 14 July 2012.

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Foreword

This document (EN ISO 3673-2:2012) 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 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of an identical text or by endorsement, at the latest by January 2013, and conflicting national standards shall be withdrawn at the latest by January 2013.

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.

This document supersedes EN ISO 3673-2:1999.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO 3673-2:2012 has been approved by CEN as a EN ISO 3673-2:2012 without any modification.

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I.S. EN ISO 3673-2:2012
INTERNATIONAL
STANDARD

ISO
3673-2

Third edition
2012-07-15

Plastics — Epoxy resins —

Part 2:

**Preparation of test specimens
and determination of properties of
crosslinked epoxy resins**

Plastiques — Résines époxydes —

*Partie 2: Préparation des éprouvettes et détermination des propriétés
des résines époxydes réticulées*



Reference number
ISO 3673-2:2012(E)

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Published in Switzerland

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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.

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

ISO 3673-2 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 12, *Thermosetting materials*.

This third edition cancels and replaces the second edition (ISO 3673-2:2007), which has been revised to make it clear that it applies only to crosslinked epoxy resins.

ISO 3673 consists of the following parts, under the general title *Plastics — Epoxy resins*:

- *Part 1: Designation*
- *Part 2: Preparation of test specimens and determination of properties of crosslinked epoxy resins*

Plastics — Epoxy resins —

Part 2:

Preparation of test specimens and determination of properties of crosslinked epoxy resins

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 concerns, 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 requirements.

1 Scope

This part of ISO 3673 specifies the methods of preparation of test specimens and the test methods to be used in determining the properties of crosslinked epoxy resins. The properties determined have been selected from the general test methods in ISO 10350-1:2007.

Test methods for the determination of the properties of non-crosslinked epoxy resins are not included in this part of ISO 3673.

NOTE Test methods for non-crosslinked epoxy resins are specified in ISO 18280.

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

Other standards exist concerning the determination of properties and preparation of test specimens for epoxy-based products, to which reference will be made, if required.

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.

ISO 62, *Plastics — Determination of water absorption*

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

ISO 178, *Plastics — Determination of flexural properties*

ISO 179-1, *Plastics — Determination of Charpy impact properties — Part 1: Non-instrumented impact test*

ISO 179-2, *Plastics — Determination of Charpy impact properties — Part 2: Instrumented impact test*

ISO 527-2, *Plastics — Determination of tensile properties — Part 2: Test conditions for moulding and extrusion plastics*

ISO 2577, *Plastics — Thermosetting moulding materials — Determination of shrinkage*

ISO 2818, *Plastics — Preparation of test specimens by machining*

ISO 3167, *Plastics — Multipurpose test specimens*

ISO 4589-2, *Plastics — Determination of burning behaviour by oxygen index — Part 2: Ambient-temperature test*

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