



SLOVENSKI STANDARD SIST EN ISO 10082:2000

01-december-2000

Nadomešča:
SIST EN ISO 10082:1999

Polimerni materiali - Fenolne smole - Razvrstitev in preskusne metode (ISO 10082:1999)

Plastics - Phenolic resins - Classification and test methods (ISO 10082:1999)

Kunststoffe - Phenolharze - Klassifizierung und Prüfverfahren (ISO 10082:1999)

Plastiques - Résines phénoliques - Classification et méthodes d'essai (ISO 10082:1999)

Ta slovenski standard je istoveten z: EN ISO 10082:1999

ICS:

01.040.83	Gumarska industrija in industrija polimernih materialov (Slovarji)	Rubber and plastics industries (Vocabularies)
83.080.10	Duromeri	Thermosetting materials

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en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 10082

December 1999

ICS 01.040.83; 83.080.10

Supersedes EN ISO 10082:1995

English version

Plastics - Phenolic resins - Classification and test methods (ISO
10082:1999)

Plastiques - Résines phénoliques - Classification et
méthodes d'essai (ISO 10082:1999)

Kunststoffe - Phenolharze - Grundlagen der Klassifizierung
und Prüfverfahren (ISO 10082:1999)

This European Standard was approved by CEN on 24 December 1999.

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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

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EN ISO 10082:1999

Foreword

The text of the International Standard ISO 10082:1999 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 IBN.

This European Standard supersedes EN ISO 10082:1995.

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 June 2000, and conflicting national standards shall be withdrawn at the latest by June 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

NOTE FROM CEN/CS: The foreword is susceptible to be amended on reception of the German language version. The confirmed or amended foreword, and when appropriate, the normative annex ZA for the references to international publications with their relevant European publications will be circulated with the German version.

Endorsement notice

The text of the International Standard ISO 10082:1999 was approved by CEN as a European Standard without any modification.

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INTERNATIONAL
STANDARD

ISO
10082

Second edition
1999-12-15

**Plastics — Phenolic resins — Classification
and test methods**

Plastiques — Résines phénoliques — Classification et méthodes d'essai

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Reference number
ISO 10082:1999(E)

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Printed in Switzerland

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ISO 10082:1999(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 International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 10082 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 12, *Thermosetting materials*.

This second edition cancels and replaces the first edition (ISO 10082:1991) and ISO/TR 8244:1988, which have been technically revised.

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Plastics — Phenolic resins — Classification and test methods

1 Scope

This International Standard gives an overview of the different types of phenolic resin used in the manufacture of thermosetting plastics and a summary of available test methods.

Clause 3 defines terms relating to the chemical structure of phenolic resins, their physical state and their degree of condensation or polycondensation.

Clause 4 gives a summary of test methods. These methods apply to the determination of properties which are relevant to the production, processing and use of phenolic resins as described in clause 3. The user should select from the tests those that are appropriate for a particular application. For a given method, only the standard(s) listed may be used.

2 Normative reference

The following normative document contains provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, this publication do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the normative document 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 472:1999, *Plastics — Vocabulary*.

3 Basis of classification of phenolic resins

This clause defines terms relating to the chemical structure of phenolic resins, their physical state and their degree of condensation or polycondensation for classification purposes in the manufacturing and processing of the resins.

The definitions apply to all fields of application of phenolic resins in plastics (see also related definitions in ISO 472).

3.1 General

3.1.1 The term "phenolic resins" as used in this International Standard refers to

- a) synthetic resins or modified products obtained by condensation of phenol with aldehydes, particularly formaldehyde;
- b) products of the addition of phenols to unsaturated compounds (for example acetylene, terpenes and natural resins)¹⁾.

¹⁾ Strictly speaking, these resins are not what are normally regarded as resins for the production of plastics. They are used particularly in certain surface coatings.