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Plastics — Epoxy resins —

Part 1: Designation

Plastiques — Résines époxydes —

Partie 1: Désignation



Reference number
ISO 3673-1:1996(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 3673-1 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee 12, *Thermosetting materials*.

This second edition cancels and replaces the first edition (ISO 3673-1:1980), of which it constitutes a minor (editorial) revision.

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*

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Plastics – Epoxy resins – Part 1: Designation

1 Scope

This part of ISO 3673 specifies a method of designation for epoxy resins.

The objective of this designation method is to allocate to each commercial product a group of digits, called the "designation", giving in a coded form certain information on the product: chemical base, approximate values of main properties and the nature of modifiers, solvents or additives.

Thus, all products having similar characteristics and therefore likely to have the same uses will have the same designation, so aiding users in their choice, provided that manufacturers quote the designation in their data sheets.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 3673. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 3673 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 1183: 1987, *Plastics — Method for determining the density and relative density of non-cellular plastics.*

ISO 1675: 1985, *Plastics — Liquid resins — Determination of density by the pycnometer method.*

ISO 3001:—¹⁾, *Plastics — Epoxy compounds — Determination of epoxy equivalent.*

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.*

3 Designation system

Epoxy resins shall be designated by the symbol "EP" for epoxide, followed by a group of five digits (corresponding to principal properties), followed by a space, followed by three digits (corresponding to secondary properties) as follows:

- each digit, except the first two digits which shall be taken together, shall correspond to one of the properties given in table 1,
- the position (I and II, III, IV, etc.) of each digit in the group shall indicate the property to which it refers,
- each digit for a property shall indicate the class (1, 2, 3 etc.) corresponding to a certain range of values of the property, as given in table 1.

NOTE 1 Not every combination of property classification will be achievable in practice. Note also that the designation of a material will not correspond, except by chance, with a horizontal row.

NOTE 2 The value of each property in positions III, IV and VI to be taken into consideration in defining the class to which a product belongs is the mean value found in manufacture and normally given in data sheets.

1) To be published. (Revision of ISO 3001:1978)