INTERNATIONAL STANDARD

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Plastics — Compression moulding of test specimens of thermoplastic materials

Plastiques — Moulage par compression des éprouvettes en matières thermoplastiques



Reference number ISO 293:2004(E)

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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 293 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 9, *Thermoplastic materials*.

This third edition cancels and replaces the second edition (ISO 293:1986), of which it constitutes a minor revision intended, above all, to update the normative reprences (Clause 2).



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Plastics — Compression moulding of test specimens of thermoplastic materials

1 Scope

This International Standard specifies the general principles and the procedures to be followed with thermoplastics in the preparation of compression-moulded test specimens, and sheets from which test specimens may be machined or stamped.

In order to obtain mouldings in a reproducible state, the main steps of the procedure, including four different cooling methods, are standardized. For each material, the required moulding temperature and cooling methods are as specified in the appropriate International Standard for the material or as agreed between the interested parties.

The procedure is not recommended for reinforced thermoplastics.

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 286-1, Geometrical product specifications (GPS) SO coding system for tolerances of linear sizes — Part 1: Bases of tolerances and fits

ISO 4287, Geometrical Product Specifications (GPS) — Surface texture: Profile method — Terms, definitions and surface texture parameters

3 Terms and definitions

For the purposes of this document, the following terms and definitions appl

3.1

moulding temperature

temperature of the mould or the press during the preheating and moulding time, measured in the nearest vicinity to the moulded material

3.2

demoulding temperature

temperature of the mould or the press platens at the end of the cooling time, measured in the nearest vicinity to the moulded material

NOTE For positive moulds, holes are normally drilled in the mould for measuring the temperatures defined in 3.1 and 3.2.

3.3

preheating time

time required to heat the material in the mould up to the moulding temperature while maintaining the contact pressure