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Second edition
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Plastics — Determination of average molecular mass and molecular mass distribution of polymers using size-exclusion chromatography —

Part 1: General principles

Plastiques — Détermination de la masse moléculaire moyenne et de la distribution des masses moléculaires des polymères par chromatographie d'exclusion stérique —

Partie 1: Principes généraux



Reference number
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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 16014-1 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 5, *Physical-chemical properties*.

This second edition cancels and replaces the first edition (ISO 16014-1:2003), which has been technically revised. The main changes are the following:

- a) the normative references have been updated (see Clause 2);
- b) the text has been adapted to allow for the fact that a new part, ISO 16014-5, has now been published;
- c) Subclause 6.5 (concerning the chromatographic columns used) has been revised;
- d) Subclause 8.2 (concerning the evaluation of data and the correction of chromatograms) has been revised.

It also incorporates the Technical Corrigendum ISO 16014-1:2003/Cor.1:2005.

ISO 16014 consists of the following parts, under the general title *Plastics — Determination of average molecular mass and molecular mass distribution of polymers using size-exclusion chromatography*:

- *Part 1: General principles*
- *Part 2: Universal calibration method*
- *Part 3: Low-temperature method*
- *Part 4: High-temperature method*
- *Part 5: Method using light-scattering detection*