



**SLOVENSKI STANDARD**  
**SIST EN ISO 9988-1:2006**  
**01-julij-2006**

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Plastics - Polyoxymethylene (POM) moulding and extrusion materials - Part 1:  
Designation system and basis for specifications (ISO 9988-1:2004)

Kunststoffe - Polyoxymethylen (POM)-Formmassen - Teil 1: Bezeichnungssystem und  
Basis für Spezifikationen (ISO 9988-1:2004)

Plastiques - Matériaux a base de polyoxyméthylène (POM) pour moulage et extrusion -  
Partie 1: Systeme de désignation et base de spécification (ISO 9988-1:2004)

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**Ta slovenski standard je istoveten z: EN ISO 9988-1:2006**

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**en**

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English Version

Plastics - Polyoxymethylene (POM) moulding and extrusion materials - Part 1: Designation system and basis for specifications (ISO 9988-1:2004)

Plastiques - Matériaux à base de polyoxyméthylène (POM) pour moulage et extrusion - Partie 1: Système de désignation et base de spécification (ISO 9988-1:2004)

Kunststoffe - Polyoxymethylen (POM)-Formmassen - Teil 1: Bezeichnungssystem und Basis für Spezifikationen (ISO 9988-1:2004)

This European Standard was approved by CEN on 16 March 2006.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

## Foreword

The text of ISO 9988-1:2004 has been prepared by Technical Committee ISO/TC 61 "Plastics" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 9988-1:2006 by Technical Committee CEN/TC 249 "Plastics", the secretariat of which is held by IBN.

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 October 2006, and conflicting national standards shall be withdrawn at the latest by October 2006.

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

### Endorsement notice

The text of ISO 9988-1:2004 has been approved by CEN as EN ISO 9988-1:2006 without any modifications.

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**Plastics — Polyoxymethylene (POM)  
moulding and extrusion materials —**

**Part 1:  
Designation system and basis for  
specifications**

**iTeh STANDARD PREVIEW**  
*Plastiques — Matériaux à base de polyoxyméthylène (POM) pour  
moulage et extrusion —  
(standards.iteh.ai)  
Partie 1: Système de désignation et base de spécification*

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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 9988-1 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 9, *Thermoplastic materials*.

This third edition cancels and replaces the second edition (ISO 9988-1:1998), of which it constitutes a minor revision in which the main changes are the deletion of the years of publication of the normative references in Clause 2 and the updating of the number of the ASTM standard used in the second example in Clause 4.

ISO 9988 consists of the following parts, under the general title *Plastics — Polyoxymethylene (POM) moulding and extrusion materials*:

- *Part 1: Designation system and basis for specifications*
- *Part 2: Preparation of test specimens and determination of properties*

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# Plastics — Polyoxymethylene (POM) moulding and extrusion materials —

## Part 1: Designation system and basis for specifications

### 1 Scope

**1.1** This part of ISO 9988 establishes a system of designation for polyoxymethylene (POM) thermoplastic materials, which may be used as the basis for specifications.

Polyoxymethylene materials are thermoplastic materials composed principally of long-chain synthetic homopolymers and copolymers of formaldehyde. The repeating unit in the molecular chain is  $-\text{CH}_2\text{O}-$  as an integral part of the main polymer chain resulting from polymerization of formaldehyde.

**1.2** The types of polyoxymethylene plastic are differentiated from each other by a classification system based on appropriate levels of the following designatory properties:

- a) melt mass-flow rate or melt volume-flow rate,
- b) tensile modulus,

and on information about basic polymer parameters, intended application, method of processing, important properties, additives, colorants, fillers and reinforcing materials.

**1.3** This part of ISO 9988 is applicable to all polyoxymethylene homopolymers and to copolymers of polyoxymethylene and blends of polymers containing polyoxymethylene.

It applies to materials ready for normal use in the form of powder, granules or pellets and to materials unmodified and modified by colorants, additives, fillers, etc.

**1.4** It is not intended to imply that materials having the same designation necessarily give the same performance. This part of ISO 9988 does not provide engineering data, performance data or data on processing conditions which may be required to specify materials for particular end-use applications.

If such additional properties are required, they shall be determined in accordance with the test methods specified in part 2 of this International Standard.

**1.5** In order to specify a thermoplastic material for a particular application or to ensure reproducible processing, additional requirements may be given in data block 5 (see 3.1).