



SLOVENSKI STANDARD SIST EN ISO 10366-1:2000

01-maj-2000

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Plastics - Methyl methacrylate/acrylonitrile/butadiene/styrene (MABS) moulding and extrusion materials - Part 1: Designation system and basis for specifications (ISO 10366-1:1993)

Kunststoffe - Methylmethacrylat/Acrylnitril/Butadien/Styrol (MABS)-Formmassen - Teil 1: Bezeichnungssystem und Basis für Spezifikationen (ISO 10366-1:1993)

Plastiques - Méthylméthacrylate/acrylonitrile/butadiene/styrene (MABS) pour moulage et extrusion - Partie 1: Systeme de designation et base de spécification (ISO 10366-1:1993)

Ta slovenski standard je istoveten z: EN ISO 10366-1:1999

ICS:

83.080.20 Plastomeri Thermoplastic materials

SIST EN ISO 10366-1:2000 en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 10366-1

May 1999

ICS 83.080.20

English version

Plastics — Methyl methacrylate/acrylonitrile/butadiene/styrene
(MABS) moulding and extrusion materials —
Part 1: Designation system and basis for specifications
(ISO 10366-1:1993)

Plastiques —

Méthylméthacrylate/acrylonitrile/butadiène/styrène
(MABS) pour moulage et extrusion — Partie 1:
Système de désignation et base de spécification
(ISO 10366-1:1993)

Kunststoffe —

Methylmethacrylat/Acrylnitril/Butadien/Styrol
(MABS)-Formmassen — Teil 1:
Bezeichnungssystem und Basis für Spezifikationen
(ISO 10366-1:1993)

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This European Standard was approved by CEN on 16 April 1999.

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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

Foreword

The text of the International Standard from Technical Committee ISO/TC 61, Plastics, of the International Organization for Standardization (ISO) has been taken over as a European Standard 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 November 1999, and conflicting national standards shall be withdrawn at the latest by November 1999.

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.

Endorsement notice

The text of the International Standard ISO 10366-1:1993 has been approved by CEN as a European Standard without any modification.

NOTE Normative references to International Standards are listed in annex ZA (normative).

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INTERNATIONAL
STANDARD

ISO
10366-1

First edition
1993-12-15

**Plastics — Methyl methacrylate/
acrylonitrile/butadiene/styrene (MABS)
moulding and extrusion materials —**

Part 1:

**(Designation system) and basis for
specifications**

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*Plastiques — Méthylméthacrylate/acrylonitrile/butadiène/styrène (MABS)
pour moulage et extrusion —*

Partie 1: Système de désignation et base de spécification



Reference number
ISO 10366-1:1993(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 10366-1 was prepared by Technical Committee ISO/TC 61, *Plastics*, Sub-Committee SC 9, *Thermoplastic materials*.

ISO 10366 consists of the following parts, under the general title *Plastics — Methyl methacrylate/acrylonitrile/butadiene/styrene (MABS) 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 — Methyl methacrylate/ acrylonitrile/butadiene/styrene (MABS) moulding and extrusion materials —

Part 1:

Designation system and basis for specifications

1 Scope

1.1 This part of ISO 10366 establishes a system of designation for MABS thermoplastic material, which may be used as the basis for specifications. (standards.iteh.ai)

1.2 The types of MABS plastics are differentiated from each other by a classification system based on appropriate levels of the designatory properties.

- a) Vicat softening temperature
- b) melt flow rate
- c) impact strength
- d) flexural modulus

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

1.3 This part of ISO 10366 is applicable to all transparent methyl methacrylate/acrylonitrile/butadiene/styrene thermoplastic materials comprised of a continuous phase consisting of polymers of styrene (and/or an alkyl-substituted styrene), acrylonitrile and poly(methyl methacrylate), and a dispersed elastomeric phase based on butadiene.

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

1.4 It is not intended to imply that materials having the same designation give necessarily the same performance. This part of ISO 10366 does not provide engineering data, performance data or data on processing conditions which may be required to specify a material for a particular application and/or method of processing.

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

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 clause 3, introductory paragraph).

ISO 10366-1:1993(E)

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 10366. 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 10366 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 1043-1:1987, *Plastics — Symbols — Part 1: Basic polymers and their special characteristics*.

ISO 1133:1991, *Plastics — Determination of the melt mass-flow rate (MFR) and the melt volume-flow rate (MVR) of thermoplastics*.

ISO 10366-2:—¹⁾, *Plastics — Methyl methacrylate/acrylonitrile/butadiene/styrene (MABS) moulding and extrusion materials — Part 2: Preparation of test specimens and determination of properties*.

3 Designation system

The designation system for thermoplastics is based on the following standardized pattern:

Designation						
Description block (optional)	Identity block					
	International Standard Number block	Individual-item block				
		Data block 1	Data block 2	Data block 3	Data block 4	Data block 5

The designation consists of an optional description block, reading "Thermoplastics", and an identity block comprising the International Standard number and an individual-item block. For unambiguous coding, the individual-item block is subdivided into 5 data blocks comprising the following information:

- Data block 1: Identification of the plastic by its symbol MABS in accordance with ISO 1043-1 and information about the polymerisation process or composition of the polymer (see 3.1).
- Data block 2: Position 1: Intended application or method of processing (see 3.2).
Positions 2 to 8: Important properties, additives and supplementary information (see 3.2).
- Data block 3: Designatory properties (see 3.3).
- Data block 4: Fillers or reinforcing materials and their nominal content (see 3.4).
- Data block 5: For the purpose of specifications, a fifth data block may be added containing additional information.

The first character of the individual-item block shall be a hyphen. The data blocks shall be separated from each other by commas.

If a data block is not used, this shall be indicated by doubling the separation sign, i.e. by two commas (,,).

1) To be published.

3.1 Data block 1

In this data block, after the hyphen, methyl methacrylate/acrylonitrile/butadiene/styrene plastics are identified by the symbol "MABS", in accordance with ISO 1043-1, followed by a hyphen and a single code-letter, giving additional information on the polymer as specified in table 1.

Table 1 — Code-letters used for additional information in data block 1

Code-letter	Range of AN content % (m/m)	Range of MMA content % (m/m)
A	< 30	> 10 but ≤ 50
B	< 30	> 50 but ≤ 80
C	≥ 30	> 10 but ≤ 50
D	≥ 30	> 50

The AN content of the continuous phase shall be determined in accordance with ISO 10366-2:—²⁾, annex A.

The MMA content of the compound shall be determined by analysis of the oxygen content.

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²⁾ To be published.