



# SLOVENSKI STANDARD SIST EN ISO 7823-1:2003

01-december-2003

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SIST EN ISO 7823-1:2001

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Plastics - Poly(methyl methacrylate) sheets - Types, dimensions and characteristics -  
Part 1: Cast sheets (ISO 7823-1:2003)

Kunststoffe - Tafeln aus Polymethylmethacrylat - Typen, Maße und Eigenschaften - Teil  
1: Gegossene Tafeln (ISO 7823-1:2003)

Plastiques - Plaques en poly(méthacrylate de méthyle) - Types, dimensions et  
caractéristiques - Partie 1: Plaques coulées (ISO 7823-1:2003)

**Ta slovenski standard je istoveten z: EN ISO 7823-1:2003**

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**ICS:**

83.140.10      Filmi in folije      Films and sheets

**SIST EN ISO 7823-1:2003**      en

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN ISO 7823-1**

June 2003

ICS 83.140.10

Supersedes EN ISO 7823-1:2000

English version

## Plastics - Poly(methyl methacrylate) sheets - Types, dimensions and characteristics - Part 1: Cast sheets (ISO 7823-1:2003)

Plastiques - Plaques en poly(méthacrylate de méthyle) - Types, dimensions et caractéristiques - Partie 1: Plaques coulées (ISO 7823-1:2003)

Kunststoffe - Tafeln aus Polymethylmethacrylat - Typen, Maße und Eigenschaften - Teil 1: Gegossene Tafeln (ISO 7823-1:2003)

This European Standard was approved by CEN on 23 May 2003.

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 Management Centre 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 Management Centre 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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

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## EN ISO 7823-1:2003 (E)

<b>CORRECTED 2003-09-24</b>
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**Foreword**

This document (EN ISO 7823-1:2003) has been prepared by Technical Committee ISO/TC 61 "Plastics" in collaboration with 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 December 2003, and conflicting national standards shall be withdrawn at the latest by December 2003.

This document supersedes EN ISO 7823-1:2000.

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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

**iTeh STANDARD PREVIEW****Endorsement notice**

The text of ISO 7823-1:2003 has been approved by CEN as EN ISO 7823-1:2003 without any modifications.

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

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## Annex ZA (normative)

### Normative references to international publications with their relevant European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE Where an International Publication has been modified by common modifications, indicated by (mod.), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 62	1999	Plastics — Determination of water absorption	EN ISO 62	1999
ISO 178	2001	Plastics — Determination of flexural properties	EN ISO 178	1996
ISO 179-1	2000	Plastics — Determination of Charpy impact properties — Part 1: Non-instrumented impact test	EN ISO 179-1	2000
ISO 291	1997	Plastics — Standard atmospheres for conditioning and testing	EN ISO 291	1997
ISO 306	1994	Plastics — Thermoplastic materials — Determination of Vicat softening temperature (VST)	EN ISO 306	1996
ISO 489	1999	Plastics — Determination of the refractive index	EN ISO 489	1999
ISO 527-1	1993	Plastics — Determination of tensile properties — Part 1: General principles	EN ISO 527-1	1996
ISO 527-2	1993	Plastics — Determination of tensile properties — Part 2: Test conditions for moulding and extrusion plastics	EN ISO 527-2	1996
ISO 877	1994	Plastics — Methods of exposure to direct weathering, to weathering using glass-filtered daylight, and to intensified weathering by daylight using Fresnel mirrors	EN ISO 877	1996
ISO 1133	1997	Plastics — Determination of the melt mass-flow rate (MFR) and the melt volume-flow rate (MVR) of thermoplastics	EN ISO 1133	1999
ISO 2039-2	1987	Plastics — Determination of hardness — Part 2: Rockwell hardness	EN ISO 2039-2	1999

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ISO 2818	1994	Plastics — Preparation of test specimens by machining	EN ISO 2818	1996
ISO 4892-2	1994	Plastics — Methods of exposure to laboratory light sources — Part 2: Xenon-arc sources	EN ISO 4892-2	1999
ISO 13468-1	1996	Plastics — Determination of the total luminous transmittance of transparent materials — Part 1: Single-beam instrument	EN ISO 13468-1	1996

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# INTERNATIONAL STANDARD

**ISO**  
**7823-1**

Fourth edition  
2003-06-01

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## Plastics — Poly(methyl methacrylate) sheets — Types, dimensions and characteristics —

### Part 1: Cast sheets

iTeh **STANDARD PREVIEW**

*Plastiques — Plaques en poly(méthacrylate de méthyle) — Types,  
dimensions et caractéristiques —*

*Partie 1: Plaques coulées*

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Reference number  
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**ISO 7823-1:2003(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.

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 7823-1 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 11, *Products*.

This fourth edition cancels and replaces the third edition (ISO 7823-1:1998), which has been technically revised.

ISO 7823 consists of the following parts, under the general title *Plastics — Poly(methyl methacrylate) sheets — Types, dimensions and characteristics*:

- ITC STANDARD PREVIEW  
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SIST EN ISO 7823-1:2003
- *Part 1: Cast sheets* <https://standards.iteh.ai/catalog/standards/sist/052dd126-634c-4185-bf57-e0b137f296fd/sist-en-iso-7823-1-2003>
  - *Part 2: Extruded sheets*
  - *Part 3: Continuous cast sheets*

# Plastics — Poly(methyl methacrylate) sheets — Types, dimensions and characteristics —

## Part 1: Cast sheets

### 1 Scope

This part of ISO 7823 specifies requirements for non-modified flat poly(methyl methacrylate) (PMMA) cast sheets (plates) for general-purpose use. The sheets may be colourless or coloured, and may be transparent, translucent or opaque.

The thickness range of the sheets covered by this part of ISO 7823 is 1,5 mm to 25 mm.

### 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 62:1999, *Plastics — Determination of water absorption*

ISO 75-1:—<sup>1)</sup>, *Plastics — Determination of temperature of deflection under load — Part 1: General test method*

ISO 75-2:—<sup>2)</sup>, *Plastics — Determination of temperature of deflection under load — Part 2: Plastics, ebonite and long-fibre-reinforced composites*

ISO 178:2001, *Plastics — Determination of flexural properties*

ISO 179-1:2000, *Plastics — Determination of Charpy impact properties — Part 1: Non-instrumented impact test*

ISO 291:1997, *Plastics — Standard atmospheres for conditioning and testing*

ISO 306:—<sup>3)</sup>, *Plastics — Thermoplastic materials — Determination of Vicat softening temperature (VST)*

ISO 489:1999, *Plastics — Determination of refractive index*

ISO 527-1:1993, *Plastics — Determination of tensile properties — Part 1: General principles*

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1) To be published. (Revision of ISO 75-1:1993)

2) To be published. (Revision of ISO 75-2:1993)

3) To be published. (Revision of ISO 306:1994)