



# SLOVENSKI STANDARD SIST EN ISO 2897-1:2000

01-maj-2000

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Plastics - Impact-resistant polystyrene (PS-I) moulding and extrusion materials - Part 1:  
Designation system and basis for specifications (ISO 2897-1:1997)

Kunststoffe - Schlagzähe Polystyrol (PS-I)-Formmassen - Teil 1: Bezeichnungssystem  
und Basis für Spezifikationen (ISO 2897-1:1997)

Plastiques - Polystyrenes résistants au choc (PS-I) pour moulage et extrusion - Partie 1:  
Systeme de désignation et base de spécification (ISO 2897-1:1997)

Ta slovenski standard je istoveten z: EN ISO 2897-1:1999

## ICS:

83.080.20      Plastomeri      Thermoplastic materials

SIST EN ISO 2897-1:2000      en

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

EN ISO 2897-1

May 1999

ICS 83.080.20

English version

Plastics - Impact-resistant polystyrene (PS-I) moulding and extrusion materials - Part 1: Designation system and basis for specifications (ISO 2897-1:1997)

Plastiques - Polystyrènes résistants au choc (PS-I) pour moulage et extrusion - Partie 1: Système de désignation et base de spécification (ISO 2897-1:1997)

Kunststoffe - Schlagzähe Polystyrol (PS-I)-Formmassen - Teil 1: Bezeichnungssystem und Basis für Spezifikationen (ISO 2897-1:1997)

This European Standard was approved by CEN on 18 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.



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

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

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## 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 an 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.

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Endorsement notice  
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The text of the International Standard ISO 2897-1:1997 has been approved by CEN as a European Standard without any modification.

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



ALTERNATIVE TITLE SHEET  
EUROPEAN STANDARD  
EN ISO 2897-1:1999  
INTERNATIONAL STANDARD  
ISO 2897-1:1997  
CEN/TC 249  
SECRETARIAT: IBN

**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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 1043-1	1997	Plastics - Symbols and abbreviated terms - Part 1: Basic polymers and their special characteristics	EN ISO 1043-1	1999
ISO 2897-2	1994	Plastics - Impact-resistant polystyrene (PS-I) moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties	EN ISO 2897-2	1999

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INTERNATIONAL  
STANDARD

ISO  
2897-1

Second edition  
1997-07-01

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**Plastics — Impact-resistant polystyrene  
(PS-I) moulding and extrusion materials —**

**Part 1:**

Designation system and basis for  
specifications

**iTeh STANDARD PREVIEW**  
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*Plastiques — Polystyrènes résistants au choc (PS-I) pour moulage et  
extrusion —*

*Partie 1: Système de désignation et base de spécification*

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Reference number  
ISO 2897-1:1997(E)

## ISO 2897-1:1997(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 2897-1 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 9, *Thermoplastic materials*.

This second edition cancels and replaces the first edition (ISO 2897-1:1990), the text of which has been brought into accordance with the standard SC 9 frame text.

ISO 2897 consists of the following parts, under the general title *Plastics — Impact-resistant polystyrene (PS-I) 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 — Impact-resistant polystyrene (PS-I) moulding and extrusion materials —

## Part 1: Designation system and basis for specifications

### 1 Scope

1.1 This part of ISO 2897 establishes a system of designation for impact-resistant polystyrene (PS-I) thermoplastic materials, which may be used as the basis for specifications.

1.2 The types of impact-resistant polystyrene plastic 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) Izod impact strength

d) flexural modulus

and on information about the intended application and/or method of processing, important properties, additives and colourants.

1.3 This part of ISO 2897 is applicable to all impact-resistant polystyrene plastics with a two-phase polymer system comprised of a continuous phase, consisting of polystyrene and/or a copolymer of styrene with an alkyl-substituted styrene, and a dispersed elastomeric phase based on butadiene.

It applies to materials ready for normal use, unmodified or modified by colourants, additives, fillers, etc.

This part of ISO 2897 does not apply to expandable materials.

1.4 It is not intended to imply that materials having the same designation give necessarily the same performance. This part of ISO 2897 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.