



SLOVENSKI STANDARD SIST EN ISO 2580-1:2000

01-maj-2000

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Plastics - Acrylonitrile/butadiene/styrene (ABS) moulding and extrusion materials - Part 1: Designation system and basis for specifications (ISO 2580-1:1997)

Kunststoffe - Acrylnitril/Butadien/Styrol (ABS)-Formmassen - Teil 1: Bezeichnungssystem und Basis für Spezifikationen (ISO 2580-1:1997)
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Plastiques - Acrylonitrile/butadiene/styrene (ABS) pour moulage et extrusion - Partie 1: Systeme de désignation et base de spécification (ISO 2580-1:1997)

Ta slovenski standard je istoveten z: EN ISO 2580-1:1999

ICS:

83.080.20 Plastomeri Thermoplastic materials

SIST EN ISO 2580-1:2000 en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 2580-1

May 1999

ICS 83.080.20

English version

Plastics - Acrylonitrile/butadiene/styrene (ABS) moulding and
extrusion materials - Part 1: Designation system and basis for
specifications (ISO 2580-1:1997)

Plastiques - Acrylonitrile/butadiène/styrène (ABS) pour
moulage et extrusion - Partie 1: Système de désignation et
base de spécification (ISO 2580-1:1997)

Kunststoffe - Acrylnitril/Butadien/Styrol (ABS)-Formmassen
- Teil 1: Bezeichnungssystem und Basis für Spezifikationen
(ISO 2580-1:1997)

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.

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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.



REPUBLIKA SLOVENIJA
MINISTRSTVO ZA ZNANOST IN TEHNOLOGIJO
Urad RS za standardizacijo in meroslovje
LJUBLJANA

SIST..... EN ISO 2580-1

PREVZET PO METODI RAZGLASITVE



-05- 2000

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

The text of the International Standard ISO 2580-1:1997 has been approved by CEN as a European Standard without any modification.

SIST EN ISO 2580-1:2000

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



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 2580-2	1994	Plastics - Acrylonitrile/butadiene/styrene (ABS) moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties	EN ISO 2580-2	1999

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INTERNATIONAL STANDARD

ISO 2580-1

Third edition
1997-07-01

Plastics — Acrylonitrile/butadiene/styrene (ABS) moulding and extrusion materials —

Part 1: Designation system and basis for specifications

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*Plastiques — Acrylonitrile/butadiène/styrène (ABS) pour moulage et
extrusion —*

Partie 1: Système de désignation et base de spécification

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Reference number
ISO 2580-1:1997(E)

ISO 2580-1:1997(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 2580-1 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 9, *Thermoplastic materials*.

This third edition cancels and replaces the second edition (ISO 2580-1:1990), the text of which has been brought into accordance with the standard SC 9 frame text.

ISO 2580 consists of the following parts, under the general title *Plastics* — *Acrylonitrile/butadiene/styrene (ABS) 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 — Acrylonitrile/butadiene/styrene (ABS) moulding and extrusion materials —

Part 1: Designation system and basis for specifications

1 Scope

1.1 This part of ISO 2580 establishes a system of designation for acrylonitrile/butadiene/styrene thermoplastic material, which may be used as the basis for specifications.

1.2 The types of ABS 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

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

1.3 This part of ISO 2580 is applicable to all styrene/acrylonitrile copolymers comprised of a continuous phase, consisting of copolymers of styrene (and/or an alkyl-substituted styrene) and acrylonitrile, and a dispersed elastomeric phase based on butadiene, with the continuous phase having more than 10 % (*m/m*) of acrylonitrile.

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

This part of ISO 2580 does not apply to materials

- a) with an Izod impact strength of less than 3 kJ/m²;
- b) containing more than 5 % (*m/m*) of comonomers other than those mentioned in 1.3;
- c) containing less than 40 % (*m/m*) of butadiene in the elastomer of the elastomeric phase.

1.4 It is not intended to imply that materials having the same designation give necessarily the same performance. This part of ISO 2580 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.