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[SIST EN ISO 7792-1:2004](https://standards.iteh.ai/catalog/standards/sist/e4a2a2fd-546e-488d-9086-9ce7d2e18c71/sist-en-iso-7792-1-2004)

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 7792-1

July 2004

ICS 83.080.20

English version

Plastics - Thermoplastic polyester (TP) moulding and extrusion materials - Part 1: Designation system and basis for specifications (ISO 7792-1:1997)

Plastiques - Polyesters thermoplastiques (TP) pour moulage et extrusion - Partie 1: Système de désignation et base de spécification (ISO 7792-1:1997)

This European Standard was approved by CEN on 21 June 2004.

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, 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

EN ISO 7792-1:2004 (E)**Foreword**

The text of ISO 7792-1:1997 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 7792-1:2004 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of an identical text or by endorsement, at the latest by January 2005, and conflicting national standards shall be withdrawn at the latest by January 2005.

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, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Endorsement notice

The text of ISO 7792-1:1997 has been approved by CEN as EN ISO 7792-1:2004 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 1043-1	2001	Plastics - Symbols and abbreviated terms - Part 1: Basic polymers and their special characteristics	EN ISO 1043-1	2001
ISO 1043-2	2000	Plastics - Symbols and abbreviated terms - Part 2: Fillers and reinforcing materials	EN ISO 1043-2	2001
ISO 1874-1	1992	Plastics - Polyamide (PA) moulding and extrusion materials - Part 1: Designation	EN ISO 1874-1	2000

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INTERNATIONAL STANDARD

ISO
7792-1

Third edition
1997-12-01

Plastics — Thermoplastic polyester (TP) moulding and extrusion materials —

Part 1:

Designation system and basis for
specifications

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Plastiques — Polyesters thermoplastiques (TP) pour moulage et extrusion —

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Partie 1: Système de désignation et base de spécification

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Reference number
ISO 7792-1:1997(E)

ISO 7792-1:1997(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.

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International Standard ISO 7792-1 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 9, *Thermoplastic materials*.

This third edition cancels and replaces the second edition (ISO 7792-1:1995) and includes the following changes:

- The scope has been expanded to include all polyester homopolymers and copolymers.
- The title has been changed from *Plastics — Poly(alkylene terephthalate) moulding and extrusion materials* to *Plastics — Thermoplastic polyester (TP) moulding and extrusion materials* to reflect the change in scope.

ISO 7792 consists of the following parts, under the general title *Plastics — Thermoplastic polyester (TP) moulding and extrusion materials*:

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

Annex A forms an integral part of this part of ISO 7792.

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International Organization for Standardization
Case postale 56 • CH-1211 Genève 20 • Switzerland
Internet central@iso.ch
X.400 c=ch; a=400net; p=iso; o=isocs; s=central

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Plastics — Thermoplastic polyester (TP) moulding and extrusion materials —

Part 1:

Designation system and basis for specifications

1 Scope

1.1 This part of ISO 7792 establishes a system of designation for thermoplastic polyester (TP) material, which may be used as the basis for specifications.

It covers polyester homopolymers for moulding and extrusion based on poly(ethylene terephthalate) (PET), poly(butylene terephthalate) (PBT), poly(cyclohexylenedimethylene terephthalate) (PCT), poly(ethylene naphthalate) (PEN) and other TP-types and copolyesters of various compositions for moulding and extrusion.

1.2 The types of thermoplastic polyester are differentiated from each other by a classification system based on appropriate levels of the designatory properties:

- a) viscosity number
- b) tensile modulus of elasticity

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

1.3 This part of ISO 7792 is applicable to thermoplastic polyester homopolymers and copolymers.

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

This part of ISO 7792 does not apply to the saturated polyester/ester and polyether/ester thermoplastic elastomers covered by ISO 14910.

1.4 It is not intended to imply that materials having the same designation give necessarily the same performance. This part of ISO 7792 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 polyester material for a particular application or to ensure reproducible processing, additional requirements may be given in data block 5.