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Plastics - Polytetrafluoroethylene (PTFE) semi-finished products - Part 1: Requirements and designation (ISO 13000-1:2021)

Kunststoffe - Polytetrafluorethylen(PTFE)-Halbzeuge - Teil 1: Anforderungen und Bezeichnung (ISO 13000-1:2021) (standards.iteh.ai)

Plastiques - Semi-produits en polytétrafluoroéthylène (PTFE) - Partie 1: Spécifications et désignation (ISO 13000-71:2021) teh.ai/catalog/standards/sist/fl60b533-c2fa-431e-9c4b-dd3cac13b3de/sist-en-iso-13000-1-2021

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Plastics - Polytetrafluoroethylene (PTFE) semi-finished products - Part 1: Requirements and designation (ISO 13000-1:2021)

Plastiques - Semi-produits en polytétrafluoroéthylène (PTFE) - Partie 1: Spécifications et désignation (ISO 13000-1:2021) Kunststoffe - Polytetrafluorethylen(PTFE)-Halbzeuge - Teil 1: Anforderungen und Bezeichnung (ISO 13000-1:2021)

This European Standard was approved by CEN on 15 August 2021.

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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN ISO 13000-1:2021 (E)

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European foreword

This document (EN ISO 13000-1:2021) 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 NBN.

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of an identical text or by endorsement, at the latest by March 2022, and conflicting national standards shall be withdrawn at the latest by March 2022.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 13000-1:2005.

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INTERNATIONAL STANDARD

ISO 13000-1

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Plastics — Polytetrafluoroethylene (PTFE) semi-finished products —

Part 1: **Requirements and designation**

Plastiques — Semi-produits en polytétrafluoroéthylène (PTFE) —

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html. (Standards.iteh.ai)

This document was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 9, *Thermoplastic materials*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 249, *Plastics*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement). at 13b3de/sist-en-iso-13000-1-2021

This third edition cancels and replaces the second edition (ISO 13000-1:2005), which has been technically revised.

The main changes compared to the previous edition are as follows:

- in <u>Clause 1</u>, any requirement and permission have been removed, and the note has been deleted;
- in <u>Clause 2</u>, introductory wording has been updated;
- in <u>Clause 3</u>, the clause title has been changed from "Terminology" to "Terms and definitions";
- in <u>Clause 4</u>, all tables have been numbered, titles have been provided; and the data in the tables have been revised;
- in <u>Clause 5</u>, designation examples have been added;
- former Annex A has been changed to Bibliography, and titles for standards have been corrected.

A list of all parts in the ISO 13000 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Plastics — Polytetrafluoroethylene (PTFE) semi-finished products —

Part 1:

Requirements and designation

1 Scope

This document establishes a system of designation for processed unfilled polytetrafluoroethylene (PTFE) products, which can occur in several forms.

The PTFE used to make the semi-finished product is described in ISO 20568-1. The PTFE used to make the semi-finished product are virgin, reprocessed or recycled resin. The addition of up to $1,5\,\%$ by mass of pigment or colorant can be used.

2 Normative references

The following documents are referred to in the text that some or all of their content constitutes requirements 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 472, Plastics — Vocabulary

ISO 20568-1, Plastics — Fluoropolymer dispersions and moulding and extrusion materials — Part 1: Designation system and basis for specifications.

ISO 13000-2, Plastics — Polytetrafluoroethylene (PTFE) semi-finished products — Part 2: Preparation of test specimens and determination of properties

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 472, ISO 20568-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at https://www.iso.org/obp
- IEC Electropedia: available at http://www.electropedia.org/

3.1

moulded basic shape

semi-finished product (3.2) made by preforming and sintering without additional processing

3.2

semi-finished product

material, in the form of *skived tape* (3.3), sheets, rods, tubes, tubing, *moulded basic shapes* (3.1) or special shapes, that is produced for use either directly without further fabrication or in fabricating end use products, or both