

STN	Plasty Polotovary z polytetrafluóretylénu (PTFE) Časť 1: Požiadavky a označovanie (ISO 13000-1: 2021)	STN EN ISO 13000-1 64 3072
------------	--	--

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

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 11/21

Obsahuje: EN ISO 13000-1:2021, ISO 13000-1:2021

Oznámením tejto normy sa ruší
STN EN ISO 13000-1 (64 3072) z mája 2006

133873

EUROPEAN STANDARD

EN ISO 13000-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2021

ICS 83.140.01

Supersedes EN ISO 13000-1:2005

English Version

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.

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 CEN-CENELEC 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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

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

Contents	Page
European foreword.....	3

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.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN websites.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO 13000-1:2021 has been approved by CEN as EN ISO 13000-1:2021 without any modification.

**INTERNATIONAL
STANDARD**

**ISO
13000-1**

Third edition
2021-08

**Plastics — Polytetrafluoroethylene
(PTFE) semi-finished products —**

**Part 1:
Requirements and designation**

*Plastiques — Semi-produits en polytétrafluoroéthylène (PTFE) —
Partie 1: Spécifications et désignation*



Reference number
ISO 13000-1:2021(E)

© ISO 2021

ISO 13000-1:2021(E)**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2021

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Requirements for PTFE semi-finished products	2
4.1 General.....	2
4.2 Dimensions and dimensional tolerances.....	2
4.2.1 General.....	2
4.2.2 Skived tape, skived sheet or film.....	2
4.2.3 Moulded sheet.....	2
4.2.4 Extruded or moulded rod.....	3
4.2.5 Tube extruded from coagulated dispersion powder.....	3
4.2.6 Extruded or moulded heavy-walled tube.....	4
4.3 Tensile strength and percentage elongation at break.....	4
4.4 Dimensional stability.....	4
4.5 Density.....	4
4.6 Hardness.....	5
4.7 Colour.....	5
4.8 Dielectric strength (DS).....	5
4.8.1 General.....	5
4.8.2 Skived tape, skived sheet or film.....	5
4.8.3 Moulded sheet.....	5
4.8.4 Moulded basic shape.....	6
4.8.5 Extruded or moulded rod.....	6
4.8.6 Tube extruded from coagulated dispersion powder.....	6
4.8.7 Extruded or moulded heavy-walled tube.....	7
4.9 Requirements that can be specified depending on the specific application.....	7
5 Format for presenting a designation	8
5.1 General.....	8
5.2 Order of presenting codes.....	8
5.3 Examples of coding a designation.....	9
Bibliography	10

ISO 13000-1:2021(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.

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.

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).

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 [Clause 1](#), any requirement and permission have been removed, and the note has been deleted;
- in [Clause 2](#), introductory wording has been updated;
- in [Clause 3](#), the clause title has been changed from "Terminology" to "Terms and definitions";
- in [Clause 4](#), all tables have been numbered, titles have been provided; and the data in the tables have been revised;
- in [Clause 5](#), 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*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN