Plastid. Polütetrafluoretüleenist (PTFE) pooltooted. Osa 1: Nõuded ja tähistamine

Plastics - Polytetrafluoroethylene (PTFE) semi-Luire, Control of the second o finished products - Part 1: Requirements and designation



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 13000-1:2006 sisaldab Euroopa standardi EN ISO 13000-1:2005 ingliskeelset teksti. This Estonian standard EVS-EN ISO 13000-1:2006 consists of the English text of the European standard EN ISO 13000-1:2005.

Käesolev dokument on jõustatud 25.01.2006 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.

This document is endorsed on 25.01.2006 with the notification being published in the official publication of the Estonian national standardisation organisation.

Standard on kättesaadav Eesti standardiorganisatsioonist.

The standard is available from Estonian standardisation organisation.

Käsitlusala:

Käesolev normdokument käsitleb töödeldud täitematerjalita polütetrafluoroetüleenist (PTFE) tooteid, mis võivad esineda mitmesugusel kujul. Pooltoodete valmistamiseks kasutatud PTFE omadused on esitatud standardis ISO 12086-1. Selle rahvusvahelise standardi nõuetele vastavalt võib PTFE sisaldada kuni üks protsent mõne teise aine monomeere.

Scope:

This part of ISO 13000 specifies the requirements for processed unfilled polytetrafluoroethylene (PTFE) products, which may occur in several forms.

ICS 83.140.01

Võtmesõnad: mõõtmed, omadused, plastid, polümeerid, pooltooted, tehnilised nõuded, tetrafluoroetüleenvaigud, tähistamine, täht-numberkoodid

EUROPEAN STANDARD

EN ISO 13000-1

NORME EUROPÉENNE **EUROPÄISCHE NORM**

November 2005

Supersedes EN ISO 13000-1:1997

English Version

Plastics - Polytetrafluoroethylene (PTFE) semi-finished products - Part 1: Requirements and designation (ISO 13000-1:2005)

Plastiques - Semi-produits en polytétrafluoroéthylène (PTFE) - Partie 1: Spécifications et désignation (ISO 13000-1:2005)

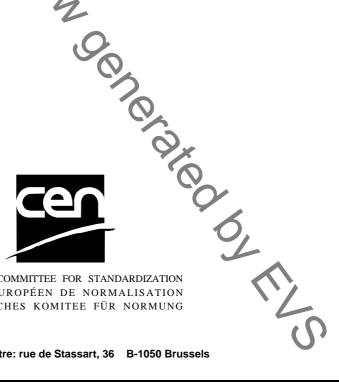
Kunststoffe - Polytetrafluorethylen (PTFE)-Halbzeuge - Teil 1: Anforderungen und Bezeichnung (ISO 13000-1:2005)

This European Standard was approved by CEN on 4 November 2005.

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.



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

Foreword

This document (EN ISO 13000-1:2005) 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 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 May 2006, and conflicting national standards shall be withdrawn at the latest by May 2006.

This document supersedes EN ISO 13000-1:1997.

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

approve Odnoroda od Charles of The Control of the C The text of ISO 13000-1:2005 has been approved by CEN as EN ISO 13000-1:2005 without any modifications.

INTERNATIONAL **STANDARD**

ISO 13000-1

> Second edition 2005-11-15

Plastics — Polytetrafluc (PTFE) semi-finished production Part 1: Requirements and designation Plastiques — Semi-produits en polytétrafluoroéthylè **ie** Spécifications et désignation Plastics — Polytetrafluoroethylene (PTFE) semi-finished products —

Lies — Spécific Spéci Plastiques — Semi-produits en polytétrafluoroéthylène (PTFE) —



Reference number ISO 13000-1:2005(E)

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below

agotem rela

Ocumbent is a Orenie Moenet alter by

any form of 2 at the 7

© ISO 2005

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office Case postale 56 • CH-1211 Geneva 20 Tel. + 41 22 749 01 11 Fax + 41 22 749 09 47 E-mail copyright@iso.org Web www.iso.org

Published in Switzerland

Cont	ents	Page
	ord	
1	Scope	
2	Normative references	
3 3.1	Terminology Terms and definitions	
3.2	Abbreviated terms and symbols	
4	Requirements for PTFE semi-finished products	
4.1 4.2	General Dimensions and dimensional tolerances	
4.3	Tensile strength and percentage elongation at break	4
4.4 4.5	Dimensional stability	4 5
4.6	Density Hardness	
4.7 4.8	Colour Dielectric strength (DS), breakdown voltage and electrical flaws	5 5
4.9	Requirements that may be specified depending on the specific application	7
5	Format for presenting a specification General Order of presenting codes	7
5.1 5.2	Order of presenting codes	7 7
5.3	Examples of coding a specification	8
Annex	A (informative) Standard specifications for semi-finished products of polytetrafluoroethylene	40
	A (informative) Standard specifications for semi-finished products of polytetrafluoroethylene	5

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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

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.

ISO 13000-1 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 9, *Thermoplastic materials*.

This second edition cancels and replaces the first edition (ISO 13000-1:1997), which has been technically revised.

ISO 13000 consists of the following parts, under the general title *Plastics — Polytetrafluoroethylene (PTFE)* semi-finished products:

- Part 1: Requirements and designation
- Part 2: Preparation of test specimens and determination of properties

Plastics — Polytetrafluoroethylene (PTFE) semi-finished products —

Part 1:

Requirements and designation

1 Scope

This part of ISO 13000 specifies the requirements for processed unfilled polytetrafluoroethylene (PTFE) products, which may occur in several forms. The PTFE used to make the semi-finished product is described in ISO 12086-1 and, as provided in ISO 12086-1, may contain up to 1 % of a comonomer. The PTFE used to make the semi-finished product may be virgin, reprocessed or recycled resin. The addition of up to 1,5 % by mass of pigment or colorant is permitted. This part of ISO 13000 allows for four grades based on tensile strength and elongation at break. The semi-finished products can be as-processed (type P) or dimensionally stabilized (type S) and may also have specified electrical properties or other properties when they are required for an application.

NOTE References to other standard specifications for semi-finished products made from polytetrafluoroethylene are listed in Annex A for information.

2 Normative references

The following referenced documents are indispensable for the application 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 1043-1, Plastics — Symbols and abbreviated terms — Part I: Basic polymers and their special characteristics

ISO 12086-1, 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 Terminology

3.1 Terms and definitions

For the purposes of this part of ISO 13000, the terms and definitions given in ISO 472 and ISO 12086-1 and the following terms and definitions apply.

© ISO 2005 – All rights reserved