

Plasty Fluoropolymérové disperzie a materiály na tvárnenie a vytláčanie Časť 1: Systém označovania a základy na špecifikáciu (ISO 20568-1: 2017)

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Plastics - Fluoropolymer dispersions and moulding and extrusion materials - Part 1: Designation system and basis for specifications (ISO 20568-1:2017)

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

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Plastiques - Polymères fluorés: dispersions et matériaux pour moulage et extrusion - Partie 1: Système de désignation et base de spécification (ISO 20568-1:2017)

Kunststoffe - Fluorpolymerdispersionen, Formmassen und Extrusionsmaterialien - Teil 1: Bezeichnungssystem und Basis für Spezifikationen (ISO 20568-1:2017)

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European foreword

This document (EN ISO 20568-1:2017) 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of an identical text or by endorsement, at the latest by December 2017, and conflicting national standards shall be withdrawn at the latest by December 2017.

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INTERNATIONAL STANDARD

ISO 20568-1

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Plastics — Fluoropolymer dispersions and moulding and extrusion materials —

Part 1:

Designation system and basis for specifications

Plastiques — Polymères fluorés: dispersions et matériaux pour moulage et extrusion —

Partie 1: Système de désignation et base de spécification



STN EN ISO 20568-1: 2018



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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).

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For an explanation on 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 the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 9, *Thermoplastic materials*.

This first edition of ISO 20568-1 cancels and replaces ISO 12086-1:2006, which has been technically revised to introduce a new designation system.

A list of all the parts in the ISO 20568 series can be found on the ISO website.

Plastics — Fluoropolymer dispersions and moulding and extrusion materials —

Part 1:

Designation system and basis for specifications

1 Scope

This document establishes a system of designation for fluoropolymer materials, which may be used as the basis for specifications.

The various types of fluoropolymer are differentiated from each other by a classification system based on appropriate levels of the designatory properties and on information about the intended application and/or method of processing, important properties, additives, colorants, fillers and reinforcing materials.

For polytetrafluoroethylene (PTFE)

For PTFE granular moulding and ram extrusion materials, and for PTFE resin produced from coagulation of dispersion:

- standard specific gravity (SSG)
- bulk density
- particle size

For aqueous dispersion of PTFE

- PTFE percentage in dispersion
- surfactant percentage in dispersion
- surfactant tolerance level

For melt processable resins

For CPT, ECTFE, EFEP, ETFE, FEP, PFA, PVDF, PVF, VDF/CTFE, VDF/HFP, VDF/TFE, VDF/TFE/HFP

- melting-peak temperature
- melt mass-flow rate

For PCTFE

zero-strength time (ZST)

For TFE/PDD

— glass transition temperature (T_g)

For aqueous dispersion of melt processable resins (ETFE, FEP, PFA, PVDF, PVF, VDF/CTFE, VDF/HFP, VDF/TFE, VDF/TFE/HFP)

- polymer percentage in dispersion
- surfactant percentage in dispersion

surfactant tolerance level

The designation system is applicable to all fluoropolymers and blends. It applies to unmodified materials ready for normal use and materials modified, for example, by colorants, additives, fillers, reinforcing materials and polymer modifiers.

It is not intended to imply that materials having the same designation give necessarily the same performance. This document does not provide engineering data, performance data or data on processing conditions which may be required to specify a material. If such additional properties are required, they are intended to be determined in accordance with the test methods specified in ISO 20568-2, if suitable.

In order to specify a thermoplastic material for a particular specification, the requirements are to be given in data block 5 (see 4.1).

2 Normative references

The following documents are referred to in the text in such a way 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 1043-1, Plastics — Symbols and abbreviated terms — Part 1: Basic polymers and their special characteristics

ISO 1133-1, Plastics — Determination of the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of thermoplastics — Part 1: Standard method

ISO 11357-2, Plastics — Differential scanning calorimetry (DSC) — Part 2: Determination of glass transition temperature and glass transition step height

ISO 11357-3, Plastics — Differential scanning calorimetry (DSC) — Part 3: Determination of temperature and enthalpy of melting and crystallization

ISO 20568-2, Plastics — Fluoropolymer dispersions and moulding and extrusion materials — Part 2: Preparation of test specimens and determination of properties

ASTM D1430, Standard Classification System for Polychlorotrifluoroethylene (PCTFE) Plastics

ASTM D2116, Standard Specification for FEP-Fluorocarbon Molding and Extrusion Materials

ASTM D4441, Standard Specification for Aqueous Dispersions of Polytetrafluoroethylene

ASTM D4591, Standard Test Method for Determining Temperatures and Heats of Transitions of Fluoropolymers by Differential Scanning Calorimetry

ASTM D4894, Standard Specification for Polytetrafluoroethylene (PTFE) Granular Molding and Ram Extrusion Materials

ASTM D4895, Standard Specification for Polytetrafluoroethylene (PTFE) Resins Produced From Dispersion

koniec náhľadu - text ďalej pokračuje v platenej verzii STN