

Plasty Materiály z polyketónu (PK) na tvárnenie a vytláčanie

Časť 2: Príprava skúšobných telies a stanovenie vlastností (ISO 21970-2: 2019)

STN EN ISO 21970-2

64 2420

Plastics - Polyketone (PK) moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties (ISO 21970-2:2019)

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

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Plastics - Polyketone (PK) moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties (ISO 21970-2:2019)

Plastiques - Polycétone (PK) pour moulage et extrusion - Partie 2: Préparation des éprouvettes et détermination des propriétés (ISO 21970-2:2019)

Kunststoffe - Polyketon (PK)-Werkstoffe - Teil 2: Herstellung von Probekörpern und Bestimmung von Eigenschaften (ISO 21970-2:2019)

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European foreword

This document (EN ISO 21970-2:2019) 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of an identical text or by endorsement, at the latest by March 2020, and conflicting national standards shall be withdrawn at the latest by March 2020.

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Endorsement notice

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INTERNATIONAL STANDARD

ISO 21970-2

Second edition 2019-07

Plastics — Polyketone (PK) moulding and extrusion materials —

Part 2:

Preparation of test specimens and determination of properties

Plastiques — Polycétone (PK) pour moulage et extrusion — Partie 2: Préparation des éprouvettes et détermination des propriétés



ISO 21970-2:2019(E)



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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 second edition cancels and replaces the first edition (ISO 21970-2:2018), of which it constitutes a minor revision to update the normative references (see <u>Clause 2</u>).

A list of all parts in the ISO 21970 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.

INTERNATIONAL STANDARD

Plastics — Polyketone (PK) moulding and extrusion materials —

Part 2:

Preparation of test specimens and determination of properties

1 Scope

This document specifies the methods of preparation of test specimens and the standard test methods to be used in determining the properties of thermoplastic polyketone moulding and extrusion materials. Requirements for handling test material and/or conditioning both the test material before moulding and the specimens before testing are given.

The properties have been selected from the general test methods in ISO 10350-1. Other test methods in wide use for or of particular significance to these moulding and extrusion materials are also included in this document, as are the designatory properties specified in ISO 21970-1.

It is intended that the methods of preparation and conditioning, the specimen dimensions and the test procedures specified in this document be used in order to obtain reproducible and comparable test results. Values determined will not necessarily be identical to those obtained using specimens of different dimensions or prepared using different procedures.

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 62, Plastics — Determination of water absorption

ISO 75-1, Plastics — Determination of temperature of deflection under load — Part 1: General test method

ISO 75-2, Plastics — Determination of temperature of deflection under load — Part 2: Plastics and ebonite

ISO 178, Plastics — Determination of flexural properties

ISO 179-1, Plastics — Determination of Charpy impact properties — Part 1: Non-instrumented impact test

ISO 179-2, Plastics — Determination of Charpy impact properties — Part 2: Instrumented impact test

ISO 291, Plastics — Standard atmospheres for conditioning and testing

ISO 294-1, Plastics — Injection moulding of test specimens of thermoplastic materials — Part 1: General principles, and moulding of multipurpose and bar test specimens

ISO 527-1, Plastics — Determination of tensile properties — Part 1: General principles

ISO 527-2, Plastics — Determination of tensile properties — Part 2: Test conditions for moulding and extrusion plastics

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

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- ISO 1183-1, Plastics Methods for determining the density of non-cellular plastics Part 1: Immersion method, liquid pyknometer method and titration method
- ISO 1183-2, Plastics Methods for determining the density of non-cellular plastics Part 2: Density gradient column method
- ISO 1183-3, Plastics Methods for determining the density of non-cellular plastics Part 3: Gas pyknometer method
- ISO 3451-4, Plastics Determination of ash Part 4: Polyamides
- ISO 4589-2, Plastics Determination of burning behaviour by oxygen index Part 2: Ambient-temperature test
- ISO 4892-1, Plastics Methods of exposure to laboratory light sources Part 1: General guidance
- ISO 4892-2, Plastics Methods of exposure to laboratory light sources Part 2: Xenon-arc lamps
- ISO 4892-3, Plastics Methods of exposure to laboratory light sources Part 3: Fluorescent UV lamps
- ISO 4892-4, Plastics Methods of exposure to laboratory light sources Part 4: Open-flame carbonarc lamps
- ISO 6603-2, Plastics Determination of puncture impact behaviour of rigid plastics Part 2: Instrumented impact testing
- ISO 10350-1, Plastics Acquisition and presentation of comparable single-point data Part 1: Moulding materials
- 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 11359-2, Plastics Thermomechanical analysis (TMA) Part 2: Determination of coefficient of linear thermal expansion and glass transition temperature
- ISO 15512, Plastics Determination of water content
- ISO 20753, Plastics Test specimens
- ISO 21970-1, Plastics Polyketone (PK) moulding and extrusion materials Part 1: Designation system and basis for specifications
- IEC 62631-2-1, Dielectric and resistive properties of solid insulating materials Part 2-1: Relative permittivity and dissipation factor Technical frequencies (0.1 Hz 10 MHz) AC methods
- IEC 62631-3-1, Dielectric and resistive properties of solid insulating materials Part 3-1: Determination of resistive properties (DC methods) Volume resistance and volume resistivity General method
- IEC 62631-3-2, Dielectric and resistive properties of solid insulating materials Part 3-2: Determination of resistive properties (DC methods) Surface resistance and surface resistivity
- IEC 60112, Methods for determining the comparative and the proof tracking indices of solid insulating materials under moist conditions
- IEC 60243-1, Electrical strength of insulating materials Test methods Part 1: Test at power frequencies
- IEC 60296, Specification for unused mineral insulating oils for transformers and switchgear
- IEC 60695-11-10, Fire hazard testing Part 11-10: Test flames 50 W horizontal and vertical flame test methods

koniec náhľadu – text ďalej pokračuje v platenej verzii STN