

SLOVENSKI STANDARD

SIST EN ISO 15103-2:2007

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Plastics - Poly(phenylene ether) (PPE) moulding and extrusion materials - Part 2:
Preparation of test specimens and determination of properties (ISO 15103-2:2007)

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Kunststoffe - Polyphenylether-(PPE-)Formmassen - Teil 2: Herstellung von Probekörpern
und Bestimmung von Eigenschaften (ISO 15103-2:2007)

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Plastiques - Matériaux à base de poly(phénylène éther)-(PPE) pour moulage et extrusion
- Partie 2: Préparation des éprouvettes et détermination des propriétés (ISO 15103-
2:2007)

Ta slovenski standard je istoveten z: EN ISO 15103-2:2007

ICS:

83.080.20 Plastomeri Thermoplastic materials

SIST EN ISO 15103-2:2007 en,fr,de

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English Version

Plastics - Poly(phenylene ether) (PPE) moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties (ISO 15103-2:2007)

Plastiques - Matériaux à base de poly(phénylène éther) (PPE) pour moulage et extrusion - Partie 2: Préparation des éprouvettes et détermination des propriétés (ISO 15103-2:2007)

Kunststoffe - Polyphenylether-(PPE-)Formmassen - Teil 2: Herstellung von Probekörpern und Bestimmung von Eigenschaften (ISO 15103-2:2007)

This European Standard was approved by CEN on 21 May 2007.

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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 Management Centre has the same status as the official versions.

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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 15103-2:2007) 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of an identical text or by endorsement, at the latest by December 2007, and conflicting national standards shall be withdrawn at the latest by December 2007.

This document supersedes EN ISO 15103-2:2004.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Endorsement notice

The text of ISO 15103-2:2007 has been approved by CEN as EN ISO 15103-2:2007 without any modifications.

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**Plastics — Poly(phenylene ether) (PPE)
moulding and extrusion materials —**

Part 2:

**Preparation of test specimens and
determination of properties**

*Plastiques — Matériaux à base de poly(phénylène éther) (PPE) pour
moulage et extrusion —
Partie 2: Préparation des éprouvettes et détermination des propriétés*

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Foreword

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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 15103-2 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 9, *Thermoplastic materials*.

This second edition cancels and replaces the first edition (ISO 15103-2:2000), which has been technically revised.

ISO 15103 consists of the following parts, under the general title *Plastics — Poly(phenylene ether) (PPE) moulding and extrusion materials*:

- Part 1: Designation system and basis for specifications
- Part 2: Preparation of test specimens and determination of properties

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Plastics — Poly(phenylene ether) (PPE) moulding and extrusion materials —

Part 2: Preparation of test specimens and determination of properties

1 Scope

This part of ISO 15103 specifies the methods of preparation of test specimens and the test methods to be used in determining the properties of poly(phenylene ether) moulding and extrusion materials. Requirements for handling test material and for conditioning both the test material before moulding and the specimens before testing are given here.

Procedures and conditions are described for the preparation of test specimens, and procedures for measuring properties of the materials from which these specimens are made are given. Properties and test methods which are suitable and necessary to characterize poly(phenylene ether) moulding and extrusion materials are listed.

The properties have been selected from the general test methods in ISO 10350-1:1998. Other test methods in wide use for, or of particular significance to, these moulding and extrusion materials are also included in this part of ISO 15103, as are the designatory properties specified in ISO 15103-1.

In order to obtain reproducible and comparable test results, it is necessary to use the methods of specimen preparation and conditioning, the specimen dimensions and the test procedures specified herein. 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 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 62, *Plastics — Determination of water absorption*

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 180, *Plastics — Determination of Izod impact strength*

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

ISO 1133, *Plastics — Determination of the melt mass-flow rate (MFR) and the melt volume-flow rate (MVR) of thermoplastics*