



**NSAI**  
Standards

Irish Standard  
I.S. EN ISO 20558-2:2019

Plastics - Poly(phenylene sulfide) (PPS)  
moulding and extrusion materials - Part  
2: Preparation of test specimen and  
determination of properties (ISO 20558-  
2:2018)

**I.S. EN ISO 20558-2:2019**

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## National Foreword

I.S. EN ISO 20558-2:2019 is the adopted Irish version of the European Document EN ISO 20558-2:2019, Plastics - Poly(phenylene sulfide) (PPS) moulding and extrusion materials - Part 2: Preparation of test specimen and determination of properties (ISO 20558-2:2018)

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**EUROPEAN STANDARD**

**EN ISO 20558-2**

**NORME EUROPÉENNE**

**EUROPÄISCHE NORM**

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ICS 83.080.20

English Version

**Plastics - Poly(phenylene sulfide) (PPS) moulding and  
extrusion materials - Part 2: Preparation of test specimen  
and determination of properties (ISO 20558-2:2018)**

Plastiques - Matériaux pour moulage et extrusion en  
poly(phénylène sulfide) (PPS) - Partie 2: Préparation  
des éprouvettes et détermination des propriétés (ISO  
20558-2:2018)

Kunststoffe - Polyphenylensulfid (PPS)-Werkstoffe -  
Teil 2: Herstellung von Probekörpern und Bestimmung  
von Eigenschaften (ISO 20558-2:2018)

This European Standard was approved by CEN on 27 February 2019.

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## **European foreword**

The text of ISO 20558-2:2018 has been prepared by Technical Committee ISO/TC 61 "Plastics" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 20558-2:2019 by 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of an identical text or by endorsement, at the latest by September 2019, and conflicting national standards shall be withdrawn at the latest by September 2019.

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.

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## **Endorsement notice**

The text of ISO 20558-2:2018 has been approved by CEN as EN ISO 20558-2:2019 without any modification.

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# INTERNATIONAL STANDARD

**ISO  
20558-2**

First edition  
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## **Plastics — Poly(phenylene sulfide) (PPS) moulding and extrusion materials —**

### **Part 2: Preparation of test specimen and determination of properties**

*Plastiques — Matériaux pour moulage et extrusion en poly(phénylène sulfide) (PPS) —*

*Partie 2: Préparation des éprouvettes et détermination des propriétés*



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**ISO 20558-2:2018(E)**



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## ISO 20558-2:2018(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](http://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](http://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 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](http://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 20558-2 cancel and replaces ISO 28078-2:2009, which has been technically revised.

A list of all parts in the ISO 20558 series can be found on the ISO website.

# Plastics — Poly(phenylene sulfide) (PPS) moulding and extrusion materials —

## Part 2: Preparation of test specimen and determination of properties

### 1 Scope

This document specifies the methods of preparation of test specimens and the test methods to be used in determining the properties of poly(phenylene sulfide) (PPS) 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.

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 sulfide) moulding and extrusion materials are listed.

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 20558-1 (melt mass-flow rate or melt viscosity, density and tensile modulus).

In order to obtain reproducible and comparable test results, it is intended to use the methods of preparation and conditioning, the specimen dimensions and the test procedures specified in this document. 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 75-2, *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 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 527-2, *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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