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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 37194.2-2018

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

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Table of Contents

Foreword
1 Scope
2 Normative references

Foreword

GB/T 37194 "Plastic polyphenylene sulfide (PPS) molding and extrusion materials" is divided into two parts.

--- Part 1. The naming system and classification basis;

--- Part 2. Sample preparation and performance determination.

This part is the second part of GB/T 37194.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This section uses the redrafting method to modify the use of ISO 28078-2.2009 "Plastic polyphenylene sulfide (PPS) molding and extrusion materials.

Part. Sample preparation and performance determination.

The main technical differences and their causes in this section compared with ISO 28078-2.2009 are as follows.

---About the normative reference documents, this part has made technical adjustments to adapt to China's technical conditions, adjustments

The situation is reflected in Chapter 2, "Regulatory Citations", and the specific adjustments are as follows.

- * Replace ISO 28078-1 with GB/T 37194.1 equivalent to the international standard;
- * Replace ISO 1183-1 with GB/T 1033.1 equivalent to the international standard;
- * Replace ISO 62 with GB/T 1034 equivalent to the international standard;
- * Replace ISO 527-2 with 1040.2 equivalent to the international standard;
- * Replace ISO 179-1 with GB/T 1043.1 equivalent to the international standard;
- * Replace IEC 60243-1 with GB/T 1408.1 equivalent to the international standard;
- * Replace IEC 60250 with GB/T 1409 modified to adopt international standards;
- * Replace IEC 60093 with GB/T 1410 equivalent to the international standard;

- * Replace ISO 75-2 with GB/T 1634.2 modified with international standards;
 - * Replace IEC 60695-11-10 with GB/T 2408 equivalent to the international standard;
 - * Replace IEC 60296 with GB/T 2536 modified to adopt international standards;
 - * Replace ISO 291 with GB/T 2918 modified to international standards;
 - * Replace ISO 1133 with GB/T 3682.1 modified to adopt international standards;
 - * Replace IEC 60112 with GB/T 4207 equivalent to the international standard;
 - * Replace ISO 178 with GB/T 9341 equivalent to the international standard;
 - * Replace ISO 3451-1 with GB/T 9345.1 equivalent to the international standard;
 - * Replace ISO 15512 with GB/T 12006.2 modified with international standards;
 - * Replace ISO 294-1 with GB/T 17037.1 equivalent to the international standard;
 - * Replace ISO 11357-3 with GB/T 19466.3 equivalent to the international standard;
 - * Replace ISO 10350-1 with GB/T 19467.1 modified with international standards;
 - * Replace ISO 11443 with GB/T 25278 modified to international standards.
- Increase the specific method for determining the moisture content of the sample (3.2), so that the standard implementation is more instructive.

This standard was proposed by the China Petroleum and Chemical Industry Federation.

This part is under the jurisdiction of the National Plastics Standardization Technical Committee (SAC/TC15).

This standard is mainly drafted by. Zhonglan Chenguang Chemical Research and Design Institute Co., Ltd., Zhejiang Xinhecheng Special Materials Co., Ltd., Dunhuang West

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1 Scope

This part of GB/T 37194 specifies the sample preparation and performance test methods for polyphenylene sulfide molded and extruded materials, as well as the sample site.

Requirements for conditioning of the sample before and after molding of the sample.

At the same time, this part specifies the procedures and conditions for sample preparation, as well as the performance test procedures for samples prepared from materials.

Suitable properties and test methods suitable for polyphenylene sulfide molding and extrusion materials.

The performance item is selected from the general test method GB/T 19467.1. Other widely used or extruded materials of polyphenylene sulfide molding and extrusion materials

Other important test methods are also included in this section, such as melt mass flow rate or melt viscosity, density and elongation in ISO 28078-2

Modulus.

In order to obtain repeatable and comparable test results, it is necessary to specify the method of sample preparation and condition adjustment as well as sample size and measurement.

Try the steps. Test data obtained from samples of different sizes or different preparation processes are not necessarily identical.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only the dated version applies to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

Plastics and polyphenylene sulfide (PPS) moulding and extruded materials - Part 1.

(GB/T 37194.1-2018, ISO 28078-1.2009, IDT)

Plastics -- Determination of density of non-foam plastics -- Part 1 . Dipping method, liquid pycnometer method and titration method

(GB/T 1033.1-2008, ISO 1183-1.2004, IDT)

GB/T 1034 Determination of water absorption of plastics (GB/T 1034-2008, ISO 62.2008, IDT)

Determination of tensile properties of plastics - Part 2. Test conditions for moulding and extruded plastics (GB/T 1040.2.

2006, ISO 527-2..1993, IDT)

GB/T 1043.1 Determination of impact strength of simply supported beams - Part 1 . Non-instrumental impact test (GB/T 1043.1-

2008, ISO 179-1.2000, IDT)

GB/T 1408.1 Test methods for electrical strength of insulating materials - Part 1. Tests under power frequency (GB/T 1408.1-2016,

IEC 60243-1.2013, IDT)

GB/T 1409 Measure the permittivity and dielectric loss factor of electrical insulation materials at power frequency, audio, high frequency (including meter wave wavelength)

Test method (GB/T 1409-2006, IEC 60250. 1969, MOD)

GB/T 1410 solid insulation material volume resistivity and surface resistivity test method (GB/T 1410-2006, IEC 60093.

1980, IDT)

Plastics -- Determination of deformation temperature of plastics - Part 2. Plastics, hard rubber and long fibre reinforced composites

(GB/T 1634.2-2004, ISO 75-2.2003, MOD)

GB/T 2408 Determination of the burning properties of plastics and vertical method (GB/T 2408-2008, IEC 60695-11-10.

1999, IDT)

GB/T 2536 unused mineral insulating oil for electrical fluid transformers and switches (GB/T 2536-2011,

IEC 60296.2003, MOD)