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

GB/T 38273.2-2019

**Plastics -- Thermoplastic polyester/ester and polyether/ester
elastomers for moulding and extrusion -- Part 2: Preparation of
test specimens and determination of properties**

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Foreword

GB/T 38273 "Plastic thermoplastic polyester/ester and polyether/ester molding and extrusion elastomers" is divided into two parts.

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

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

This part is Part 2 of GB/T 38273.

This section was drafted in accordance with the rules given in GB/T 1.1-2009.

This part uses the redrafting method to modify the use of ISO .20029-2..2017 "Plastic thermoplastic polyester/ester and polyether/ester molding and extrusion

Elastomers. Part 2. Sample preparation and performance determination. "

There are technical differences between this part and ISO .20029-2..2017. Appendix A lists this part and ISO .20029-2..2017

A list of technical differences and their causes.

The following editorial changes have been made in this section.

--- Delete the last paragraph in the range.

This part is proposed by the China Petroleum and Chemical Industry Federation.

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

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1 Scope

This part of GB/T 38273 specifies the sample preparation and performance test methods

for thermoplastic polyester/ester and polyether/ester molding and extrusion materials

Method, as well as the requirements for sample processing, sample conditioning before sample molding, and state adjustment before sample testing.

This section specifies the procedures and conditions for the preparation of thermoplastic polyester/ester and polyether/ester molding and extrusion materials and the test materials for these samples

Material properties. It also lists the properties and tests required to characterize thermoplastic polyester/ester and polyether/ester molding and extrusion materials method.

The performance items are selected from the general test methods in GB/T 19467.1. This section also includes thermoplastic polyester/ester and polyether/ester molding and

Some other particularly important or widely used test methods for extruded materials, such as the characteristic properties (hardness, melting, etc.) specified in GB/T 38273.1

Point and tensile/flexural modulus).

This section applies to all thermoplastic polyester/ester and polyether/ester elastomers. Also suitable for direct use in powder, granular or flake form

Used and modified or unmodified materials by colorants, additives, fillers, etc.

In order to obtain comparable and reproducible test results, it is necessary to follow the sample preparation process and state adjustment methods and trials specified in this part.

Sample size and test method. Test data using different sample sizes or sample preparation methods may not be consistent.

2 Normative references

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

Pieces. For the cited documents without date, the latest version (including all amendments) applies to this document.

GB/T 1033.1 Determination of density of plastic non-foamed plastics Part 1. Dipping method, liquid pycnometer method and titration method

(GB/T 1033.1-2008, ISO 1183-1..2004, IDT)

GB/T 1033.2 Determination of density of plastic non-foamed plastics Part 2. Density gradient column method (GB/T 1033.2-2010,

ISO 1183-2..2004, MOD)

GB/T 1033.3 Determination of density of plastic non-foamed plastics Part 3. Gas pycnometer method (GB/T 1033.3-2010, (ISO 1183-3..1999, IDT)

GB/T 1034 Determination of water absorption of plastics (GB/T 1034-2008, ISO 62..2008, IDT)

GB/T 1040.2 Determination of tensile properties of plastics Part 2. Test conditions for molded and extruded plastics (GB/T 1040.2-2006, ISO 527-2..1993, IDT)

GB/T 1043.1 Determination of impact performance of simply supported plastic beams Part 1. Non-instrumental impact test (GB/T 1043.1-2008, ISO 179-1..2000, IDT)

GB/T 1043.2 Determination of impact performance of simply supported plastic beams Part 2. Instrumented impact test (GB/T 1043.2-2018, (ISO 179-2..1997, IDT)

GB/T 1408.1 Test method for electrical strength of insulating materials Part 1. Test at power frequency (GB/T 1408.1-2016, (IEC 60243-1..2013, IDT)

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