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

GB/T 38273.1-2019

**Plastics -- Thermoplastic polyester/ester and polyether/ester
elastomers for moulding and extrusion -- Part 1: Designation
system and basis for specification**

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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 1 of GB/T 38273.

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

The translation method used in this part is equivalent to the use of ISO .20029-1..2017 "Plastic thermoplastic polyester/ester and polyether/ester molding and extrusion

Part 1. Naming system and classification basis ".

The documents in China that have a consistent correspondence with the normatively cited international documents in this section are as follows.

--- GB/T 1844.4-2008 Plastic symbols and abbreviations Part 4. Flame retardants (ISO 1043-4..1998, IDT)

--- GB/T 38273.2-2019 Plastic thermoplastic polyester/ester and polyether/ester molded and extruded elastomers Part 2. Test specimens

Preparation and performance determination (ISO .20029-2..2017, MOD)

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 naming system for thermoplastic polyester/ester and polyether/ester elastomers.

The basis for setting product specifications.

Different types of thermoplastic polyester/ester and polyether/ester elastomers are distinguished by different grades of the following properties.

- a) hardness;
- b) Melting temperature;
- c) Tensile/bending elastic modulus.

Information about applications, processing methods, important properties, additives, chroma, filling and reinforcement materials are also related to nomenclature or classification.

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

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

This section does not mean that materials with the same name must have the same performance. This section does not provide instructions for specific uses and/or special features

The engineering data, performance data and processing condition data required for the material of the processing method. When necessary, it is necessary to comply with Part 2 of this standard

The verification methods specified in determine these additional properties.

In order to illustrate the special purpose of a certain thermoplastic or to guarantee the reproducibility of processing, additional requirements can be given in character group 5 (see

4.1).

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.

ISO 1043-4 Plastic Symbols and Acronyms Part 4. Flame Retardants

(Plastics-Symbols and abbreviated

terms-Part 4. Flame retardants)

ISO 18064 Thermoplastic Elastic Materials Terms and Abbreviations

(Thermoplastic elastomers-Nomenclature and abbrevi-

ated terms)

ISO 20029-2 Plastic thermoplastic polyester/ester and polyether/ester molded and extruded elastomers. Part 2. Test specimen preparation and performance measurement

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

3 Terms and definitions

No terms and definitions are listed in this section.

The terminology database in the ISO and IEC standards can be found at the following address.