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

GB/T 29288-2026

Replacing GB/T 29288-2012

Thermoformable rigid polyurethane cellular plastics

热塑性硬质聚氨酯泡沫塑料

(English Translation)

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document supersedes GB/T 29288-2012 "General Technical Requirements for Rigid Thermoplastic Polyurethane Foams" and is consistent with GB/T 29288-Compared to 2012, aside from structural adjustments and editorial changes, the main technical changes are as follows.

- a) The scope has been changed (see Chapter 1, Chapter 1 of the 2012 edition);
- b) Added classification varieties and changed the description of "dry and wet processing" in the classification (see Chapter 4, Chapter 3 of the 2012 edition).
- c) The technical requirements for the product appearance have been changed (see 5.1, 4.1 in the 2012 edition).
- d) The technical requirements and test methods for apparent core density have been changed (see 5.2 and 6.4, 4.2 and 5.3 in the 2012 edition).
- e) Increased performance requirements and test methods for thermal conductivity (see 5.2 and 6.9);
- f) Increased performance requirements and test methods for sound absorption coefficient (see 5.2 and 6.10);
- h) Performance requirements and test methods for total carbon volatiles have been added (see 5.2 and 6.12);
- i) Performance requirements and test methods for formaldehyde content have been added (see 5.2 and 6.13);
- j) The technical requirements and test methods for odor have been changed (see 5.2 and

6.14, 4.3 and 5.9 in the 2012 edition).

- k) Added performance requirements and test methods for atomization performance (condensable components) (see 5.2 and 6.15);
- l) Requirements and test methods for combustion performance have been added (see 5.3 and 6.17);
- m) Added requirements and test methods for prohibited substances (see 5.4 and 6.18);
- n) Increased requirements for sample preparation (see 6.1);
- o) Added labeling requirements (see Chapter 8);
- p) Added requirements for packaging, transportation, and storage (see Chapter 9);
- q) A test method for the initial processable temperature has been added (see Appendix A);
- r) The odor rating test method has been removed (see Appendix B of the 2012 edition).

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China National Light Industry Council.

This document is under the jurisdiction of the National Technical Committee on Standardization of Plastic Products (SAC/TC 48).

1 Scope

This document specifies the classification, requirements, inspection rules, labeling, packaging, transportation, and storage of thermoplastic rigid polyurethane foams, describing...

The corresponding experimental methods were developed.

This document applies to open-cell foams with thermoforming properties produced primarily from polyether (ester) polyols and isocyanates.

Production, sale and inspection of plastics.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are listed below.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies.

This document.

GB/T 2918 Standard Environment for Conditioning and Testing of Plastic Specimens GB/T 6343 Determination of apparent density of foamed plastics and rubber GB 8410 Combustion characteristics of automotive interior materials GB 8624 Classification of fire performance of building materials and products GB/T 8811 Test method for dimensional stability of rigid foamed plastics GB/T 8812.2 Determination of flexural properties of rigid foamed plastics - Part 2: Determination of flexural strength and apparent flexural modulus GB/T 8813 Determination of compressive properties of rigid foamed plastics GB/T 10294 Determination of steady-state thermal resistance and related properties of thermal insulation materials - Protective hot plate method GB/T 10295 Determination of steady-state thermal resistance and related properties of thermal insulation materials - heat flow meter method GB/T 10799 Determination of Open-Cell and Closed-Cell Volume Percentage of Rigid Foamed Plastics GB/T 18696.2 Measurement of absorption coefficient and acoustic impedance in acoustic impedance tubes - Part 2: Transfer function method GB/T 19466.1 Differential Scanning Calorimetry (DSC) for Plastics - Part 1: General Rules GB/T 30512 Requirements for Prohibited Substances in Automobiles GB 46520 Technical Specification for Fire Performance of Thermal Insulation Materials and Products for Buildings GB 50016 Code for Fire Protection Design of Buildings GB 55037 General Code for Fire Protection of Buildings QC/T 850-2011 Polyurethane foam for passenger car seats

3 Terms and Definitions

This document does not contain any terms or definitions that need to be defined.

4 Classification

The products are classified into three categories according to the post-processing and molding methods.