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Plastics - Technical specification for evaluation of recycled plastic products - Part 2: Polystyrene (PS) materials

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is Part 2 of GB/T 46018 "Technical Specification for Evaluation of Recycled Plastic Products". GB/T 46018 has been published. The following sections.

- Part 1: Polyethylene terephthalate (PET) material;

- Part 2: Polystyrene (PS) materials.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

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

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

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Introduction

Under the global trend of promoting the use of recycled plastic products, high-quality recycling has become the development direction of the future plastic recycling economy.

The requirements should not only focus on whether the quality of recycled plastics meets the application requirements, but also take into account the traceability of the entire recycling system cycle process, Safety, environmental resource impact and other property requirements, in order to meet the increasingly stringent domestic regulations and certification requirements for recycled plastics, recycling is the existing The best choice for disposing of waste plastics.

Establish product evaluation requirements covering the entire process of plastic recycling and regeneration, and provide a basis for China to build an independent recycled plastic certification system.

It provides a basis for high-quality recycling, and provides a more applicable and guiding evaluation for the application of recycled plastic products.

GB/T 46018 "Technical Specifications for Evaluation of Recycled Plastic Products" is intended to consist of four parts.

- Part 1: Polyethylene terephthalate (PET) materials. The purpose is to establish the Product evaluation requirements for polyethylene terephthalate (PET) materials.

- Part 2: Polystyrene (PS) materials. The purpose is to establish product evaluation criteria applicable to recycled polystyrene (PS) materials. Require.

- Part 3: Polyethylene (PE) and polypropylene (PP) materials. The purpose is to establish the application of recycled polyethylene (PE) and polypropylene Product evaluation requirements for (PP) materials.

- Part 4: Polycarbonate (PC) materials. The purpose is to establish product evaluation

criteria applicable to recycled polycarbonate (PC) materials. Require.

Technical Specifications for Evaluation of Recycled Plastic Products Part 2: Polystyrene (PS) materials

1 Scope

This document establishes the evaluation principles, contents and methods of recycled polystyrene [PS(REC)] materials, stipulates the evaluation indicators and weights, and provides The verification method, calculation of total evaluation score and evaluation organization form are proposed.

This document is applicable to waste polystyrene (PS) plastics or waste impact polystyrene (PS-I) plastics as raw materials, which are recycled by mechanical Evaluation of the collected PS(REC) particles or PS-I(REC) particles.

This document is not applicable to the evaluation of PS (REC) plastic materials derived from hazardous wastes such as medical waste, pesticide packaging, and radioactive waste.

This document is not applicable to the evaluation of PS (REC) plastic materials prepared by mixing PS plastics with other plastic materials.

2 Normative references

GB/T 2035

GB/T 19001

GB/T 20861

GB/T 23331

GB/T 24001

GB/T 30102

GB/T 37547

GB/T 37821

GB/T 39171

GB/T 40006

GB/T 40006.1-2021

GB/T 40006.6-2021

GB/T 43836

GB/T 45001

GB/T 45090

GB/T 45091-2024

GB/T 46043-2025

3 Terms and Definitions

GB/T 2035, GB/T 20861, GB/T 30102, GB/T 37821 and GB/T 40006.1-2021 and the following terms The terms and definitions apply to this document.