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

GB/T 40006.4-2025

**Plastics - Recycled plastics - Part 4: Mixtures of polyolefin
(MPO) materials**

塑料 再生塑料 第4部分：聚烯烃混合物(MPO)材料

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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 4 of GB/T 40006 Plastics - Recycled Plastics. GB/T 40006 has been published in the following parts.

- Part 1: General;
- Part 2: Polyethylene (PE) materials;
- Part 3: Polypropylene (PP) material;
- Part 4: Polyolefin blends (MPO) materials;
- Part 5: Acrylonitrile butadiene styrene (ABS) materials;
- Part 6: Polystyrene (PS) and high-impact polystyrene (PS-I) materials;
- Part 7: Polycarbonate (PC) materials;
- Part 8: Polyamide (PA) materials;
- Part 9: Polyethylene terephthalate (PET) material;
- Part 10. Polybutylene terephthalate (PBT) material;
- Part 11. Polyvinyl chloride (PVC) materials;
- Part 12. Polymethyl methacrylate (PMMA) materials;
- Part 13. Polyphenylene ether (PPE) 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.

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Introduction

The plastics industry is an important pillar industry of the national economy. With the rapid development of China's plastics industry and the extensive use of plastic products, the demand for plastics has increased significantly.

Recycling and reuse is an important issue facing the industry. It is one of the ways to achieve sustainable development of plastics and also a way to solve the problem of "white pollution".

Environmental protection issues provide an effective way.

In order to meet the needs of the recycled plastics market and industry, improve the quality of recycled plastics products, and promote the healthy development of the recycled plastics industry, China has formulated The GB/T 40006 series of national standards for recycled plastics has been released. Currently, this series of national standards is divided into The

first part of the General Rules stipulates the naming, terminology and odor level, restricted substance content, radioactivity and other general requirements of recycled plastics.

The rest of the parts are product standards. In addition to the common requirements of the general rules, the technology of recycled plastics of this material is specified according to the type of plastic. Require.

GB/T 40006 "Plastics - Recycled Plastics" is intended to consist of 13 parts.

- Part 1: General. The purpose is to unify the general requirements of this series of products and facilitate reference in other parts.

- Part 2: Polyethylene (PE) materials. The purpose is to establish product requirements applicable to recycled PE materials to meet industry needs.

- Part 3: Polypropylene (PP) materials. The purpose is to establish product requirements applicable to recycled PP materials to meet industry needs.

- Part 4: Polyolefin blends (MPO) materials. The purpose is to establish product requirements for recycled MPO materials to meet Industry demand.

- Part 5: Acrylonitrile-butadiene-styrene (ABS) materials. The purpose is to establish product requirements for recycled ABS materials.

To meet the needs of the industry.

- Part 6: Polystyrene (PS) and impact polystyrene (PS-I) materials. The purpose is to establish the requirements for recycled PS and PS-I Product requirements of materials to meet industry needs.

- Part 7: Polycarbonate (PC) materials. The purpose is to establish product requirements for recycled PC materials to meet the industry need.

- Part 8: Polyamide (PA) materials. The purpose is to establish product requirements applicable to recycled PA materials to meet industry needs.

- Part 9: Polyethylene terephthalate (PET) materials. The purpose is to establish product requirements applicable to recycled PET materials.

To meet the needs of the industry.

- Part 10. Polybutylene terephthalate (PBT) materials. The purpose is to establish products suitable for recycled PBT materials Requirements, meet industry needs.

- Part 11. Polyvinyl chloride (PVC) materials. The purpose is to establish product requirements for recycled PVC materials to meet the industry need.

- Part 12. Polymethyl methacrylate (PMMA) materials. The purpose is to establish products suitable for recycled PMMA materials Requirements, meet industry needs.

- Part 13. Polyphenylene ether (PPE) materials. The purpose is to establish product requirements for recycled PPE materials to meet the industry need.

This document is the fourth part of the series of standards. This document specifies the characteristics of polyolefin recycled plastics based on the characteristics of polyolefin materials.

When specifying these performance requirements, both the standard requirements of virgin polyolefin materials and the performance of recycled polyolefin blend materials are taken into consideration. characteristic. Plastic recycled plastic Part 4: Polyolefin blends (MPO) materials

1 Scope

This document specifies the classification, nomenclature, and requirements for recycled polyolefin mixture plastics [MPO(REC)].

The standard specifies the test methods for raw plastics, inspection rules, marking and accompanying documents, packaging, transportation and storage.

This document is applicable to waste polyethylene (PE), polypropylene (PP) and other polyolefin (PO) plastics as raw materials, which have been classified, screened, crushed, Granular polyolefin mixture recycled plastics made by processes such as washing or melt extrusion granulation.

This document does not apply to recycled plastics from polyolefin mixtures derived from hazardous waste such as medical waste, pesticide packaging, and radioactive waste.

2 Normative references

GB/T 1033.1

GB/T 1040.2

GB/T 1043.1

GB/T 1845.2-2021

GB/T 2035

GB/T 2546.2-2022

GB/T 2547

GB/T 2918

GB/T 3682.1

GB/T 8170