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

**GB/T 40006.10-2025**

**Plastics - Recycled plastics - Part 10: Poly(butylene  
terephthalate) (PBT) materials**

塑料 再生塑料 第10部分：聚对苯二甲酸丁二醇酯（PBT）材料

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Standardization Administration of the PRC**

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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 is Part 10 of GB/T 40006 "Plastics - Recycled Plastics". GB/T 40006 has already published the following parts.

- 1. General Rules;
- 2. Polyethylene (PE) Materials;
- 3. Polypropylene (PP) Materials;
- 4. Polyolefin Blend (MPO) Materials;
- 5. Acrylonitrile-Butadiene-Styrene (ABS) Materials;
- 6. Polystyrene (PS) and Impact-Resistant Polystyrene (PS-I) Materials;
- 7. Polycarbonate (PC) Materials;
- 8. Polyamide (PA) Materials;
- 9. Polyethylene terephthalate (PET) materials;
- 10. Polybutylene terephthalate (PBT) materials;
- 11. Polyvinyl Chloride (PVC) Materials;
- 12. Polymethyl methacrylate (PMMA) materials;

## 1 Scope

GB/T 40006.10-2025 is the Chinese national standard covering recycled PBT - the characterisation of the regrind, the intrinsic viscosity that shows how much chain scission the reprocessing caused, the contaminants, and the designation that tells a moulder what he can expect from the batch. Part 10 of the recycled plastics series, first edition, with Part 12 on PMMA. In force from 1 May 2026. Issued on 31 October 2025, it has been in force since 1 May 2026.

This document specifies the classification and nomenclature of polybutylene terephthalate (PBT) recycled plastics [PBT(REC)], and describes... The PBT(REC) test method specifies the inspection rules, marking and accompanying documents, packaging, transportation and storage. This document applies to granular polybutylene terephthalate (PBT) plastic obtained through mechanical recycling from waste PBT plastic. Butylene phthalate (PBT) recycled plastic material. This document does not apply to polybutylene terephthalate derived from hazardous waste such as medical waste, pesticide packaging, and radioactive waste. (PBT) recycled plastics, and also not applicable to glass fiber reinforced polybutylene terephthalate (PBT) recycled plastics or polybutylene terephthalate. Blends of PBT and other 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 not included. 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 1033.1 Determination of density of non-foamed plastics - Part

## 3 Determination of Melting and Crystallization Temperatures and Enthalpy

GB/T 34691.2 Plastics - Thermoplastic polyester (TP) molding and extrusion materials - Part