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

GB/T 46386.1-2025

**Plastics - Poly(butylene adipate terephthalate) (PBAT) moulding
and extrusion materials - Part 1: Designation system and basis
for classification**

塑料 聚对苯二甲酸-己二酸丁二酯 (PBAT) 模塑和挤出材料 第1部分: 命名系统
和分类基础

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Standardization Administration of the PRC**

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Foreword

This document conforms to GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting is scheduled. This document is Part 1 of GB/T 46386 "Plastics - Polybutylene terephthalate (PBAT) Molding and Extrusion Materials". GB/T 46386 has published the following parts. --Part

1 Scope

GB/T 46386.1-2025 is the Chinese national standard covering how a PBAT grade is named and classified - the designation blocks carrying the intended process and the property values that distinguish one grade from another, so that a compounder and a converter mean the same thing by a grade code. Part 1 of the series, with the test method Part 2. First edition, in force from 1 May 2026. Issued on 5 October 2025, it has been in force since 1 May 2026.

2. Sample preparation and performance determination. 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 and is under the jurisdiction of the National Technical Committee on Standardization of Bio-based Materials and Degradable Products (SAC/TC 380). This document was drafted by: Liaoning Kingfa Biomaterials Co., Ltd., Shanghai Kingfa Science & Technology Development Co., Ltd., and Donghua Engineering & Technology Co., Ltd. Limited Company, China Chemical Donghua Tianye New Materials Co., Ltd., Shenzhen Hongcai New Materials Technology Co., Ltd., Beijing Technology and Business University, Tongcheng Chemical (China) (State-owned) Co., Ltd., Yangzhou Huitong Technology Co., Ltd., Jinhui Zhaolong High-tech Co., Ltd., Xinjiang Lanshan Tunhe Degradable Materials Co., Ltd. Limited Liability Company, Shanghai Juyou Chemical Co., Ltd., Shandong Dawn Degradable Materials Co., Ltd., Shandong Ruian Biotechnology Co., Ltd., Hubei Yi Chemical Degradation New Materials Co., Ltd., Huafeng Group Co., Ltd., Sinopec Yizheng Chemical Fiber Co., Ltd., Wanhua Chemical Group Co., Ltd. The company, Ningbo Jialian Technology Co., Ltd., Tsinghua University, Sichuan University, Yuansu Huitong New Materials (Yangzhou) Co., Ltd., and

Hefei Hengxin Biotechnology Co., Ltd. Vitality Technology Co., Ltd., Zhejiang Huafa Ecological Technology Co., Ltd., Sinopec (Dalian) Petrochemical Research Institute Co., Ltd., Light Industry Plastics Materials Processing and Application Research Institute. The main drafters of this document are. Zeng Xiangbin, Lu Changli, Zheng Wen, Pei Qiong, Zhang Bao, Yang Hong, Diao Xiaoqian, Hu Jing, Zhang Qian, Zhao Yanchao, and Zhang Yuesheng. Fan Wuyuan, Liu Hua, Ding Yanghuiqin, Li Zonghua, An Shuyi, Song Aihua, Zhu Jingli, Shi Lufei, Ma Ning, Wang Xiong, Guo Baohua, Wang Yuzhong, Shen Kunliang, Yan Deping, Sun Yuanzheng, Zhou Feng, Liu Yang, and Li Ziyi.

"Plastic Polybutylene Terephthalate (PBAT) Molding and Extrusion Materials" aims to establish universally applicable materials for polyethylene terephthalate (PBAT) molding and extrusion. The guidelines for the nomenclature, classification, sample preparation, and performance determination of butyl adipate (PBAT) molding and extrusion materials are proposed to be divided into two parts, constitute. --Part

1. Naming System and Classification Basis. The aim is to standardize the naming and classification of PBAT thermoplastic materials, establishing a system that includes... A classification system of characteristic performance values, etc., is used to distinguish different types of PBAT molding and extrusion materials. --Part

2. Sample Preparation and Performance Determination. The aim is to establish sample preparation methods and performance parameters suitable for PBAT materials. Measurement items, methods, and conditions. Polybutylene terephthalate (PBAT) plastic Molded and extruded materials Part

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 1844.1 Plastic symbols and abbreviations - Part

3 Terms and Definitions

The terms and definitions defined in GB/T 2035 apply to this document.

4 Character group

5 The naming system consists of a description group (optional) and an identification group. The description group is written as "thermoplastic plastics," and the identification group includes the national standard number group. The feature item group is further divided into

the following five character groups to make the naming more explicit.

a) Character group

1.The plastic code is PBAT (see 4.2).

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