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

GB/T 46386.2-2025

**Plastics - Poly(butylene adipate terephthalate) (PBAT) moulding
and extrusion materials - Part 2: Preparation of test specimens
and determination of properties**

塑料 聚对苯二甲酸-己二酸丁二酯 (PBAT) 模塑和挤出材料 第2部分: 试样制备
和性能测定

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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 2 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 46386.2-2025 is the Chinese national standard covering how a PBAT grade is tested - the specimen moulding conditions for a soft biodegradable polyester that is sensitive to how it is processed, the conditioning, and the properties determined and reported. PBAT is the backbone of most compostable film sold in China. Part 2 of the series, 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: Kingfa Science & Technology Co., Ltd., Shanghai Kingfa Science & Technology Development Co., Ltd., and Donghua Engineering & Technology Co., Ltd. Zhonghua Donghua Tianye New Materials Co., Ltd., Shenzhen Hongcai New Materials Technology Co., Ltd., Beijing Technology and Business University, Tongcheng Chemical (China) Co., Ltd. The company, Yangzhou Huitong Technology Co., Ltd., Zhejiang Boxia Biomaterials Co., Ltd., Jinhui Zhaolong High-tech Co., Ltd., Zhejiang Jiangyin Innovative Materials Technology Co., Ltd., Shanghai Juyou Chemical Co., Ltd., Shandong Dawn Degradable Materials Co., Ltd., Shandong Ruian Biotechnology Co., Ltd. Limited Liability Company, Hubei Yihua Degradable New Materials Co., Ltd., Huafeng Group Co., Ltd., Sinopec Yizheng Chemical Fiber Co., Ltd., Wanhua Chemical Group Co., Ltd., Ningbo Jialian Technology Co., Ltd., Tsinghua University, Sichuan University, and Yuansu Huitong New Materials (Yangzhou) Co., Ltd. Limited Liability Company, Hefei Hengxin Life Technology Co., Ltd., Zhejiang Huafa

Ecological Technology Co., Ltd., Sinopec (Dalian) Petrochemical Research Institute Limited Liability Company, Light Industry Plastics Processing and Application Research Institute. The main drafters of this document are. Chen Pingxu, Guo Molin, Ouyang Chunping, Pei Qiong, Zhang Bao, Yang Hong, Diao Xiaoqian, Hu Jing, Zhang Qian, Zhao Yanchao, and Zhang Yuesheng. An Xiaoshan, Fan Wuyuan, Ma Shuangyi, 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, Tu Zhu, 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 Room temperature test

GB/T 2408 Determination of flammability of plastics - Horizontal and vertical methods

GB/T 2918 Standard Environment for Conditioning and Testing of Plastic Specimens

GB/T 3682.1 Measurement of melt mass flow rate (MFR) and melt volumetric flow rate (MVR) of thermoplastics Part