

ICS 83.140.10

CCS G 33



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

GB/T 44572-2024

Biaxially oriented polyethylene (BOPE) film

双向拉伸聚乙烯（BOPE）薄膜

Issued on: September 29, 2024

Implemented on: April 1, 2025

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

Table of Contents

Foreword

1 Scope

2 Normative references

3 Terms and definitions

3.1 Semi matt film

3.2 Matt film

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 is required.

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 China Light Industry Federation.

This document is under the jurisdiction of the National Technical Committee for Standardization of Plastic Products (SAC/TC 48).

This document was drafted by: Shanghai Ruoyi New Materials Technology Co., Ltd., Changhong Meiling Co., Ltd., Guangdong Weifu Packaging Materials Co., Ltd.

Company, Chengde Technology Co., Ltd., Beijing Technology and Business University, Yantai Fuli Packaging Materials Co., Ltd., Shijiazhuang Yucai Pharmaceutical Packaging Materials Co., Ltd., Sinopec (Beijing) Chemical Research Institute Co., Ltd., Jinan Sike Testing Technology Co., Ltd., Tianjin Huaheng Packaging Materials Co., Ltd., Shanghai Zijiang Color Printing and Packaging Co., Ltd., Henghe Materials Technology Co., Ltd., Klinsmann New Materials Co., Ltd., Guangdong Shicheng Plastic Machinery Co., Ltd., Jiangsu Shenkai Packaging High-tech Co., Ltd., Inner Mongolia Yili Industrial Group Co., Ltd., Squirrel Co., Ltd., Amcor Technology R&D Co., Ltd., Shanghai Toppan Co., Ltd., Ziyang Zhongnuocheng Plastic Products Co., Ltd.

Co., Ltd., Chongqing Hetai Runjia Co., Ltd., Kangmingyuan (Guizhou) Technology Development Co., Ltd., Jiangsu Teliliang New Materials Technology Co., Ltd., Anhui Zijin New Materials Technology Co., Ltd. and Hubei Fusite Materials Technology Group Co., Ltd.

The main drafters of this document are: Wei Liming, Chen Sen, Xu Bo, Liang Yanyang, Wang Chengeng, Chi Fuyi, Shang Guodong, Gao Dali, Zhang Muqing, Zhou Jian, Chen

Manli, Wang Bin, Wang Zhenqing, Zhang Chunhua, Chen Yuefeng, Song Lijun, Huang Ranling, Zou Yanhong, Gu Shenlong, Xu Xiangyang, Yang Hao, Yue Jinfu, Guo Jianbing, Cao Liang, Xing Bin, and Zhang Dong.

Biaxially oriented polyethylene (BOPE) film

1 Scope

This document specifies the classification, appearance, size and physical and mechanical properties of biaxially oriented polyethylene (BOPE) film (hereinafter referred to as "film").

It describes the product testing methods and specifies the inspection rules, marking, packaging, transportation and storage contents.

This document applies to the production, inspection and sales of films made from polyethylene resin as the main raw material using the planar biaxial stretching method.

2 Normative references

GB/T 191

GB/T 1040.3

GB/T 2410-2008

GB/T 2828.1

GB/T 2918

GB/T 6672

GB/T 6673

GB/T 8807

GB/T 10006

GB/T 12027

GB/T 14216

GB/T 26253

GB/T 37841

3 Terms and definitions

The terms and definitions defined in GB/T 5609 and the following apply to this document.

3.1 Semi matt film

The surface roughness of the matte layer is uniform, the haze is greater than or equal to 20% and less than 70%, and the glossiness (incident angle 45°) is greater than 15%. film.

Note. The surface layer of the film with high roughness, low glossiness and diffuse reflection is the matte layer.

3.2 Matt film

The matte layer has a uniform surface roughness, a haze greater than or equal to 70%, and a glossiness (incident angle 45°) less than or equal to 15%.