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

GB/T 29061-2025

Replacing GB/T 29061-2012

Performance films for building glass

建筑玻璃用功能膜

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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 replaces GB/T 29061-2012 "Functional Films for Architectural Glass". Compared with GB/T 29061-2012, except for structural adjustments and... Aside from editorial changes, the main technical changes are as follows:

- a) The scope has been changed (see Chapter 1, Chapter 1 of the.2012 edition);
- b) The terminology and definitions for functional membranes and bubbles have been changed (see 3.1, 3.6, and 3.6 in the.2012 edition), and the terms for pitting and spots have been removed. The definitions (see 3.2, 3.3 of the.2012 edition) have been expanded to include terms and definitions for heat insulation films, point defects, and haze (see 3.2, 3.3 and 3.4). 3.7);
- c) The classification, grading, and labeling have been changed (see Chapter 4, Chapter 4 of the.2012 edition);
- d) The specifications have been changed (see Chapter 5, Chapter 5 of the.2012 edition);
- e) The technical requirements and test methods for appearance quality have been changed (see 6.1, 7.2, and 7.2 in the.2012 edition);

f) The technical requirements and test methods for optical performance have been changed (see 6.3, 7.4, and

7.4 in the 2012 edition);

g) The technical requirements and test methods for color uniformity have been changed (see 6.4, 7.5, and

1 Scope

GB/T 29061-2025 is the Chinese national standard covering the film applied to window glass - solar control, low emissivity, safety and privacy films, with their optical and thermal performance, their adhesion and their durability against the ultraviolet they exist to block. It replaces GB/T 29061-2012. It was issued on 2 December 2025 and has been in force since 1 July 2026, replacing GB/T 29061-2012. The document is under the responsibility of the China Building Materials Federation. This page is published from the official record of the 2025 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the terminology and definitions, classification, grading and marking, specifications, requirements, test methods, and inspection procedures for functional films used in architectural glass. Then, as well as marking, packaging, transportation and storage. This document applies to various polyester-based glass substrates used for surface mounting in architectural and home decoration, and for separating gas cavities within insulated glass units. Functional membrane materials.

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 191 Pictorial Symbols for Packaging and Storage

GB/T 1040.1-2018 Determination of tensile properties of plastics - Part

3 Terms and Definitions

The terms and definitions defined in GB/T 2680 and the following terms and definitions apply to this document.

3.1 performance film A special coating is applied to the surface of a polyester substrate, or (and) materials are added within the substrate to give it flexible properties such as heat

insulation, safety, and decoration. film.

3.2 heat-insulating film A functional membrane that selectively reflects and absorbs sunlight in the wavelength range of 300nm to 2500nm.

3.3 point defect Particulate solids or spots that are inconsistent with the overall color of the membrane are trapped in the membrane layer.

Note. Point defects include pits, spots, bright spots, pinholes, inclusions, etc.