CNCGLASS Vacuum Bag Film

High-Temperature Nylon 230 °C for Oven and Autoclave

Technical Product Catalog · English

Brand: CNCGLASS

Company: CNC Ucolin Interlayer Technology Co., Ltd.

Address: SHENZHEN, GD, CHINA

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High-temperature nylon vacuum bag film · max use temperature 230 °C · high tensile · curing ovens and autoclaves · good barrier under high temperature / pressure · multiple resin systems · laminated-glass vacuum bagging where suitable. Colors: blue / pink.

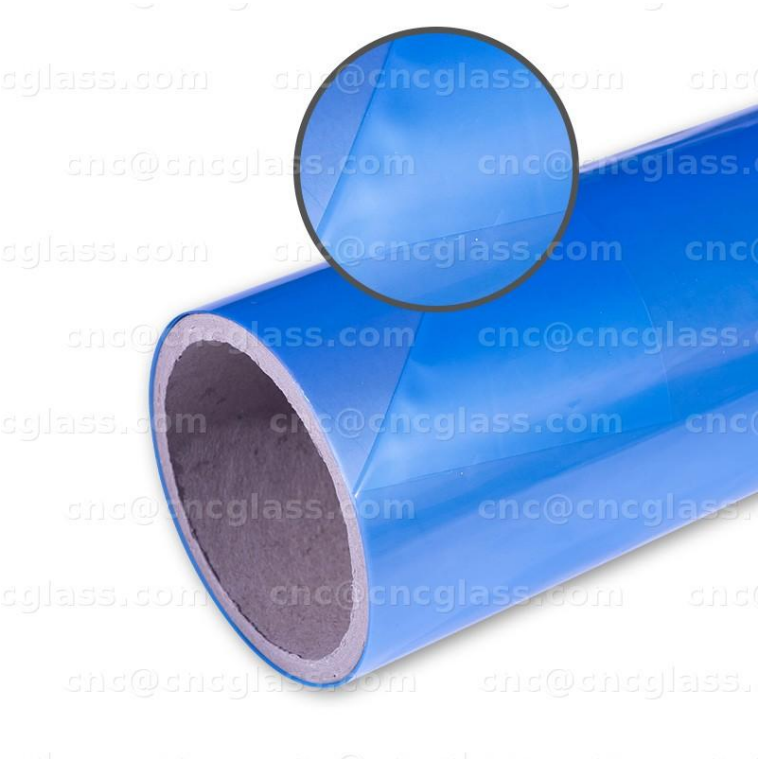

Figure 1. CNCGLASS high-temperature nylon vacuum bag film (blue roll) — product photo from linked page, watermarked.

1. Product Overview

This **CNCGLASS** vacuum bag film is a high-temperature nylon membrane with high tensile strength. Maximum use temperature **230 °C** (prose and specification table on the source page both state 230 °C — used as the single governing figure). Suitable for curing ovens and autoclaves, with good barrier performance under high temperature and pressure, and for multiple resin systems.

Industry practice (public vacuum-bagging literature): nylon bag film, sealant tape, and breather form a sealed stack; vacuum consolidates and extracts air before / during heat cure.

2. Technical Specifications

Product facts — no model / SKU. Custom size and thickness available. ASTM values kept as source-page facts. Thicknesses on this grade: 50 µm and 75 µm only.

Dimensions & forms

Thickness	Max width	Roll forms

50 µm	4.5 m	Tubular / Sheet / Folded
75 µm	4.5 m	Tubular / Sheet / Folded

Material & mechanical properties

Property	Value	Test method
Material	Nylon	—
Elongation at break	350%	ASTM D882
Tensile strength	55 MPa	ASTM D882
Max use temperature	230 °C	—
Color	Blue / Pink	—

Custom size / thickness: available to customer requirements.

3. Vacuum Bag Principle

The nylon bag film forms an airtight envelope over the laminate or composite layup. Sealant tape closes the perimeter. A breather layer provides air paths to the vacuum port. Under vacuum — and in autoclave with added external pressure — the stack consolidates and air / volatiles are extracted before or during heat cure up to 230 °C.

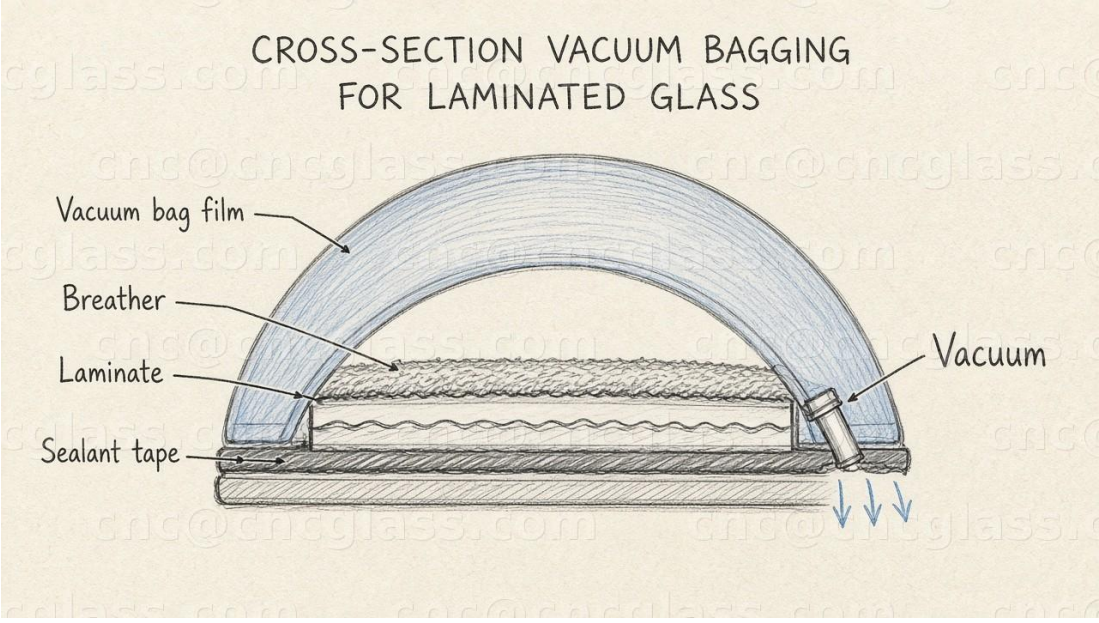

Figure 2. Vacuum bag principle (hand-drawn sketch): film over laminate + breather + sealant tape; vacuum drawn through port.

For laminated glass: vacuum bagging / vacuum-oven bagging de-airs interlayer stacks; autoclave bagging adds external pressure for demanding glass or composite cures within the 230 °C rating.

4. Nylon Film Structure (Schematic)

Product material fact: nylon (blue / pink). Figure 3 is a hand-drawn sketch cutaway only. Exact film chemistry beyond “nylon” is not published on the source page and is not claimed here.

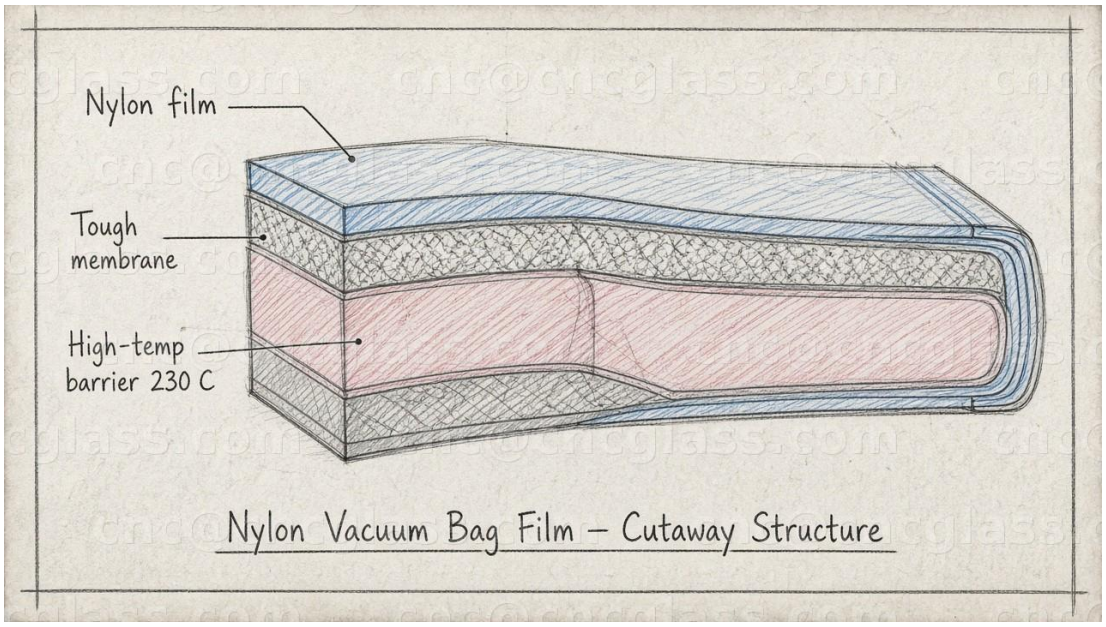

Figure 3. Nylon vacuum bag film structure (hand-drawn sketch) — educational only.

5. Oven and Autoclave Process

Typical flow: (1) lay laminate / composite on tool; (2) release / peel ply and breather as required; (3) cover with nylon vacuum bag film; (4) seal perimeter; (5) pull vacuum; (6) cure in oven and/or autoclave while holding vacuum. Keep process peaks within the 230 °C maximum use temperature with margin for local hot spots.

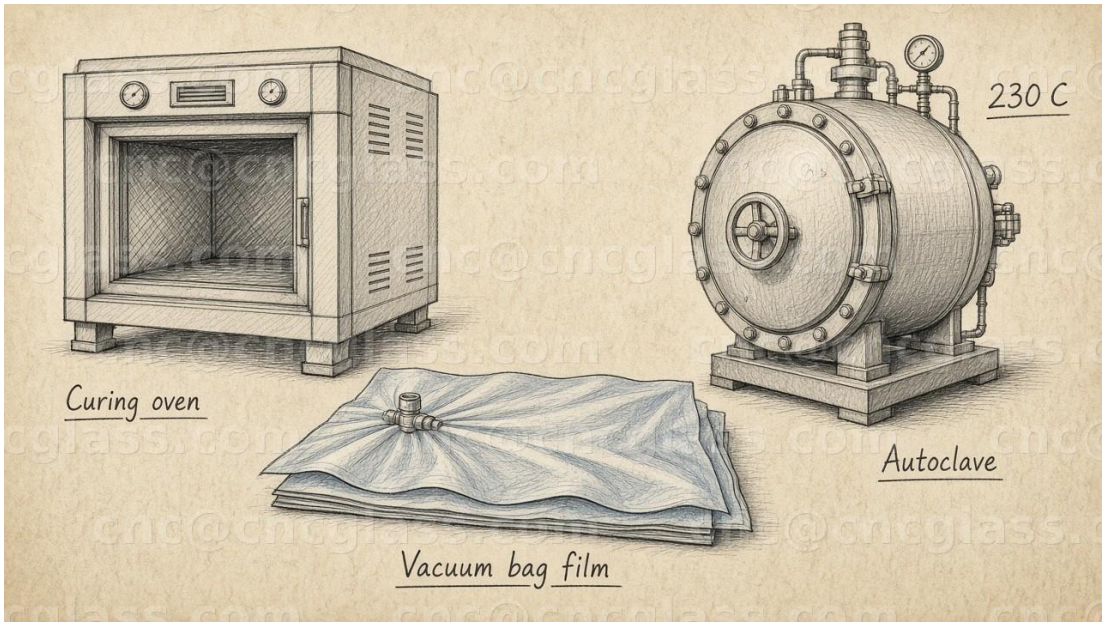

Figure 4. Process (hand-drawn sketch): curing oven and autoclave with 230 °C-class nylon vacuum bag film.

6. Applications

CNCGLASS high-temperature nylon 230 °C vacuum bag film is positioned for:

- Curing-oven vacuum-bag processes for resins and interlayers within 230 °C.
- Autoclave vacuum bagging needing high temperature / pressure barrier performance.
- Composite vacuum-bag processes with blue / pink nylon film up to 4.5 m width.
- Laminated safety / architectural glass vacuum bagging where nylon bag film fits the line.

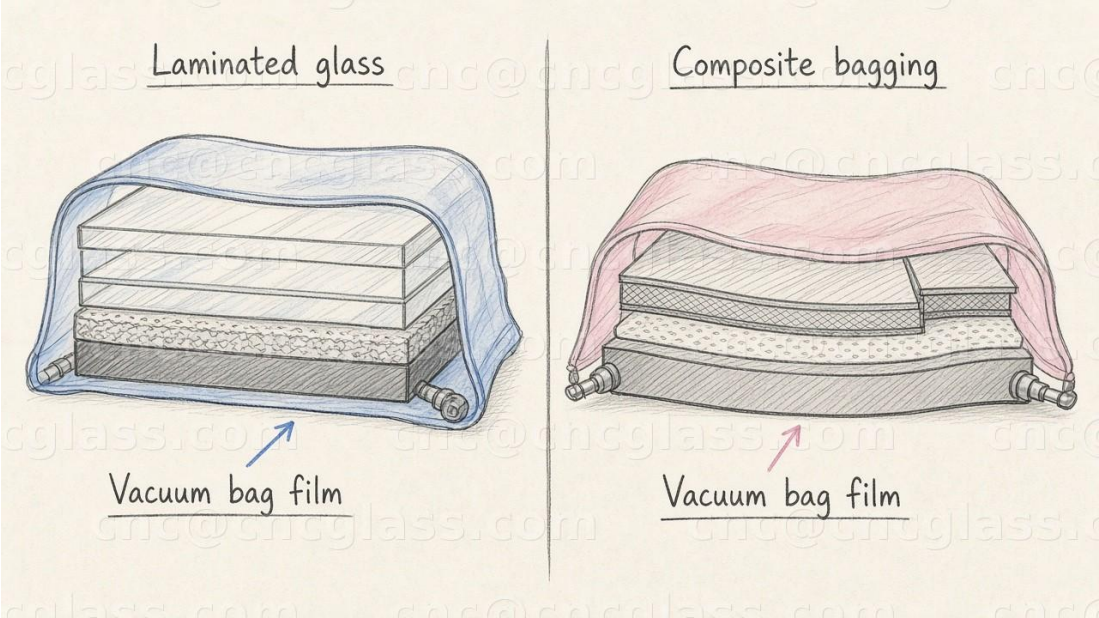

Figure 5. Applications (hand-drawn sketch): laminated-glass vacuum bagging and composite bagging (blue / pink film).

7. Packaging, Storage & Handling

- Store in a dry place, away from light / direct sun.
- Storage surface should be smooth; clear sharp objects to avoid punctures.
- Handle gently when moving and deploying rolls.
- During use, protect the film surface — do not contact sharp items that could pierce the membrane.

Roll forms: tubular, sheet, and folded. Colors: blue / pink.

8. Notes for Glaziers & Laminators

- Match thickness (50 µm / 75 µm) to part size and edge sharpness.
- Leak-check bags before heat; pinholes defeat vacuum.
- Pair with compatible sealant tape and breather.
- For autoclave cycles, confirm 230 °C peak and external pressure compatibility with CNCGLASS.

Shop tip (public bagging guides): intentional pleats at corners; bridging wrinkles can tear under vacuum or autoclave pressure.

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Ask **CNCGLASS** for roll form, color (blue / pink), width, thickness (50 / 75 µm), and 230 °C process confirmation for your oven / autoclave line.