

CNCGLASS Vacuum Bag Film

High-Temperature Nylon for Oven and Autoclave Vacuum Bagging

Technical Product Catalog · English · NO prices

Brand: **CNCGLASS**

Company: **CNC Ucolin Interlayer Technology Co., Ltd.**

Address: SHENZHEN, GD, CHINA

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High-temperature nylon vacuum bag film · high tensile · curing ovens and autoclaves · good barrier under high temperature / pressure · multiple resin vacuum-bag processes · laminated-glass vacuum bagging where suitable.

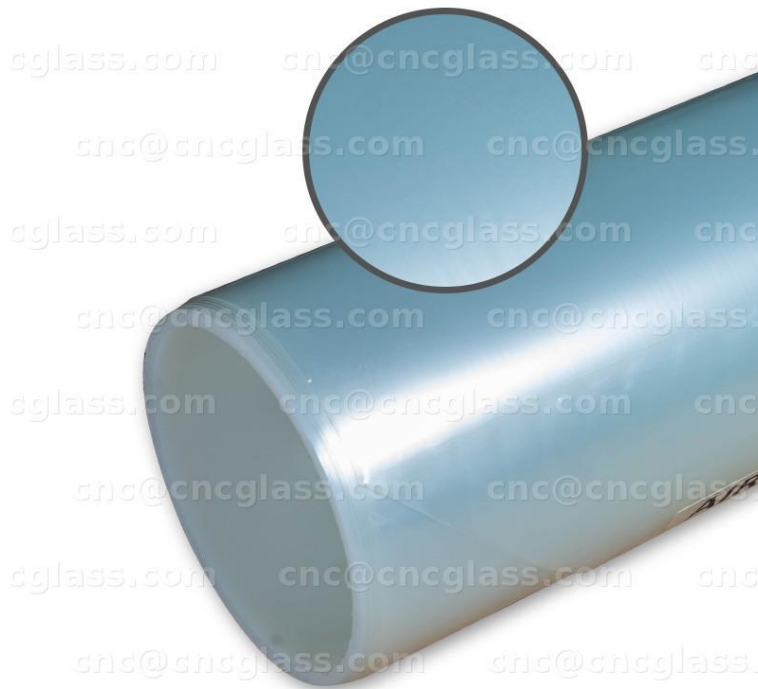


Figure 1. CNCGLASS high-temperature nylon vacuum bag film (light-blue roll) — product photo from linked page, watermarked.

1. Product Overview

This **CNCGLASS** vacuum bag film is a high-temperature nylon membrane with high tensile strength. It is designed for use in curing ovens and autoclaves, with good barrier performance under high temperature and pressure, and is suitable for multiple resin vacuum-bag processes.

2. Technical Specifications

Product facts below — no model / SKU. Custom size and thickness available.

Dimensions & forms

Thickness	Max width	Roll forms
50 μm	4.2 m	Tubular / Sheet / Folded
65 μm	4.2 m	Tubular / Sheet / Folded
75 μm	4.2 m	Tubular / Sheet / Folded

Material & mechanical properties

Property	Value	Test method
Material	Nylon	—
Elongation at break	370%	ASTM D882
Tensile strength	45 MPa	ASTM D882
Max use temperature (table)	180 °C	—
Color	Colorless / Light blue / Light green	—

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, atmospheric (and in autoclave, additional) pressure consolidates the stack and extracts air / volatiles before or during heat cure.

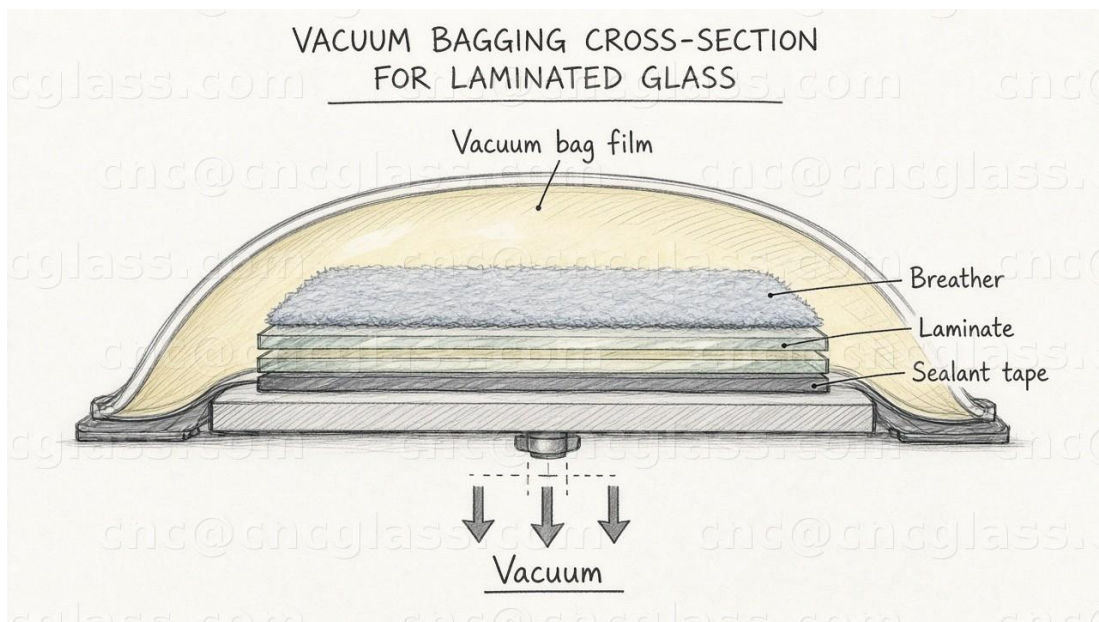


Figure 2. Vacuum bag principle (sketch): film over laminate + breather + sealant tape; vacuum drawn through port.

For laminated glass: vacuum bagging / vacuum-oven bagging de-airs interlayer stacks and holds contact during heat; autoclave bagging adds external pressure for demanding glass or composite cures.

4. Nylon Film Structure (Schematic)

Product material fact: nylon. Figure 3 is a cartoon educational cutaway only (tough membrane / gas-barrier roles). Exact film chemistry beyond “nylon” is not published on the source page and is not claimed here.

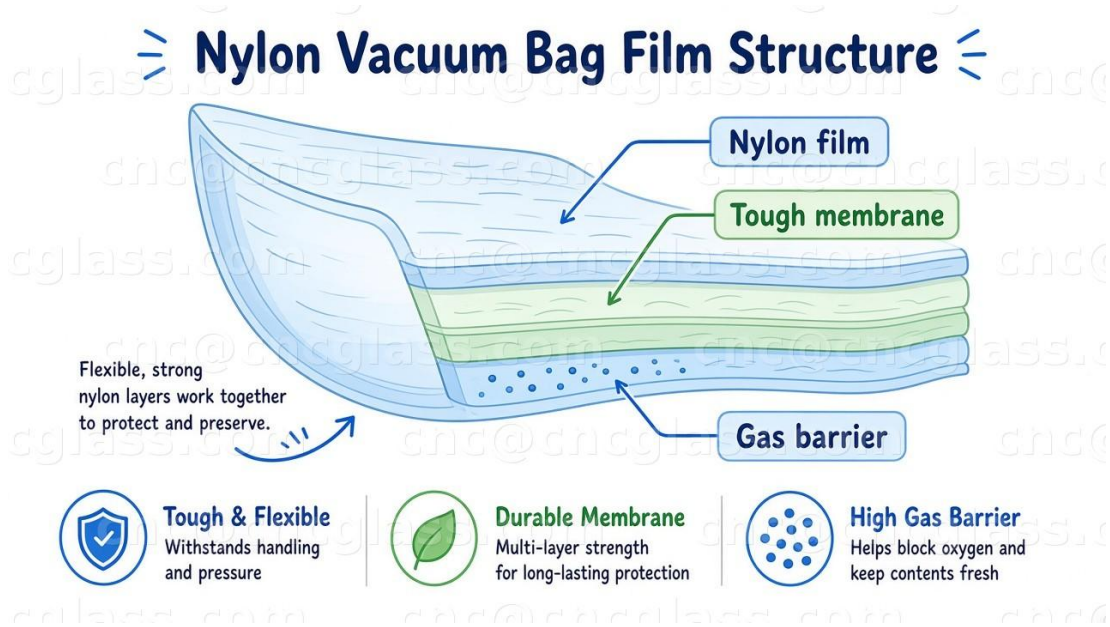


Figure 3. Nylon vacuum bag film structure (cartoon schematic) — educational only; not a claimed coextrusion recipe.

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. Respect the confirmed temperature ceiling — see Section 1.

Confirmed limits reminder: table **180 °C** / prose claim **204 °C** — verify before programming heat profiles.

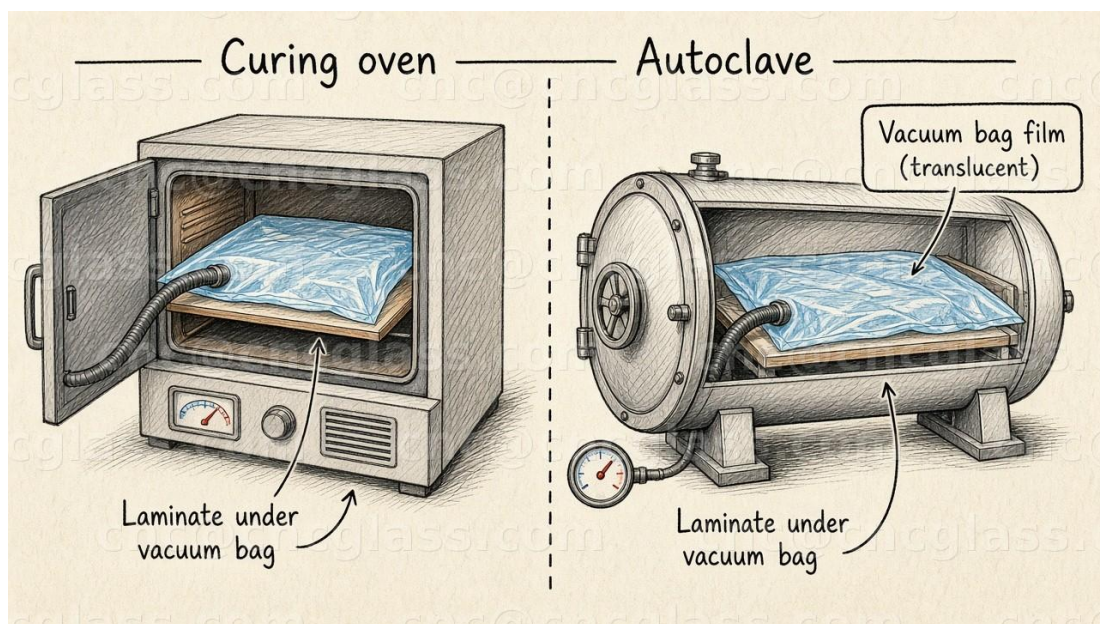


Figure 4. Process (sketch): curing oven and autoclave with vacuum bag film over laminate under vacuum.

6. Applications

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

- Curing-oven vacuum-bag processes for resins and interlayers within the confirmed film temperature rating.
- Autoclave vacuum bagging where high temperature and pressure barrier performance is required.
- Laminated safety / architectural glass vacuum bagging where nylon bag film is appropriate for the shop line.
- Other composite vacuum-bag processes needing high-tensile nylon film up to 4.2 m width in tubular, sheet, or folded form.

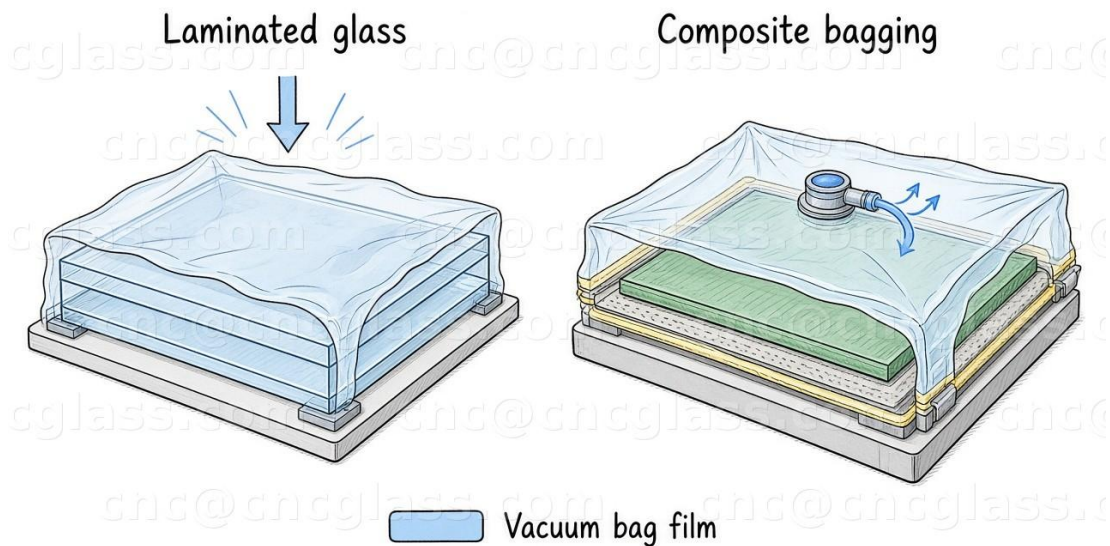


Figure 5. Applications (cartoon): laminated-glass vacuum bagging and composite bagging.

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 — match form to layup geometry and seal strategy. Colors: colorless, light blue, light green.

8. Notes for Glaziers & Laminators

- Match thickness (50 / 65 / 75 μm) to part size and edge sharpness — thicker film generally improves puncture margin on glass edges.
- Leak-check bags before heat; pinholes defeat vacuum and cause bubbles / voids in laminated glass and dry spots in composites.
- Pair with compatible sealant tape and breather; film alone does not replace a designed vacuum stack.
- For autoclave cycles, confirm film compatibility with both peak temperature and external pressure with CNCGLASS.

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

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Ask **CNCGLASS** for roll form, color, width, thickness, and written confirmation of the governing temperature rating for your oven / autoclave line.