

CNCGLASS Vacuum Bag Film

High-Temperature Nylon 204 °C for Oven and Autoclave

Technical Product Catalog · English

Brand: CNCGLASS

Company: CNC Ucolin Interlayer Technology Co., Ltd.

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High-temperature nylon vacuum bag film · max use temperature 204 °C · high tensile · curing ovens and autoclaves · good barrier under high temperature / pressure · multiple resin vacuum-bag / VARTM processes · laminated-glass vacuum bagging where suitable.



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



Figure 2. Green nylon vacuum bag film roll (page product photo), watermarked.

1. Product Overview

This **CNCGLASS** vacuum bag film is a high-temperature nylon membrane with high tensile strength. Maximum use temperature **204 °C** (prose and specification table on the source page agree — 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 vacuum-bag / VARTM processes.

Industry practice (public vacuum-bagging / VARTM literature): nylon bag film, sealant tape, breather, and peel ply / flow mesh 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.

Dimensions & forms

Thickness	Max width	Roll forms
50 µm	4.5 m	Tubular / Sheet / Folded
65 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	400%	ASTM D885
Tensile strength	55 MPa	ASTM D885
Max use temperature	204 °C	—
Color	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 — and in autoclave with added external pressure — the stack consolidates and air / volatiles are extracted before or during heat cure up to 204 °C.

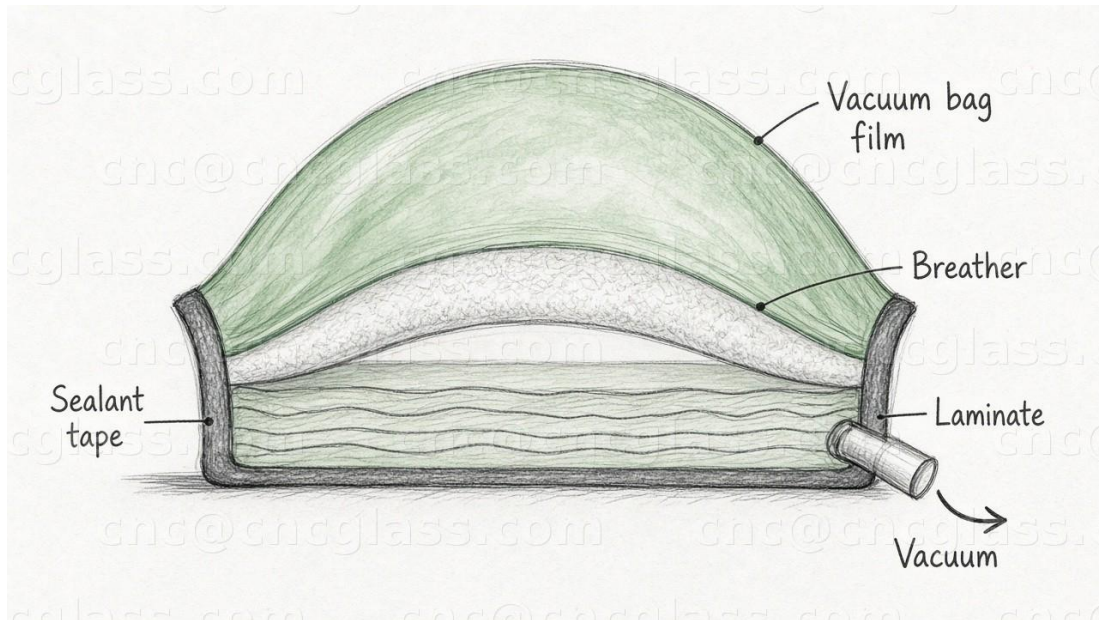


Figure 3. Vacuum bag principle (sketch): film over laminate + breather + sealant tape; vacuum drawn through port.

For laminated glass: vacuum bagging / vacuum-oven bagging de-airs interlayer stacks; autoclave bagging adds external pressure for demanding glass or composite cures within the 204 °C rating.

4. Nylon Film Structure (Schematic)

Product material fact: nylon (green). Figure 4 is a cartoon educational cutaway only. Exact film chemistry beyond “nylon” is not published on the source page and is not claimed here.

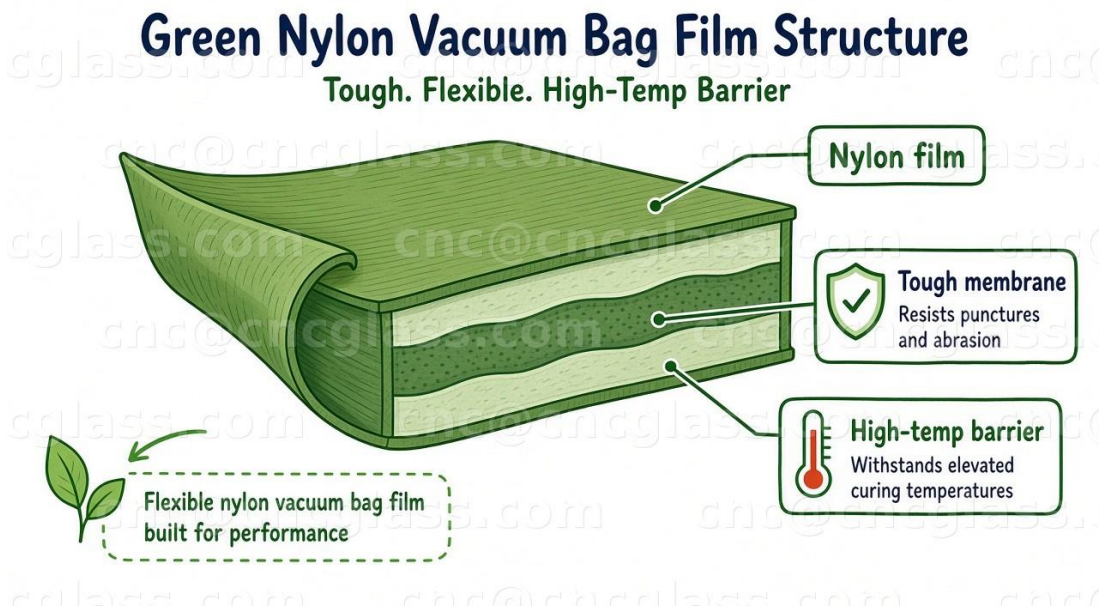


Figure 4. Green nylon film structure (cartoon schematic) — educational only.

5. Oven and Autoclave Process

Typical flow: (1) lay laminate / composite on tool; (2) release / peel ply, flow mesh, 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 204 °C maximum use temperature with margin for local hot spots.

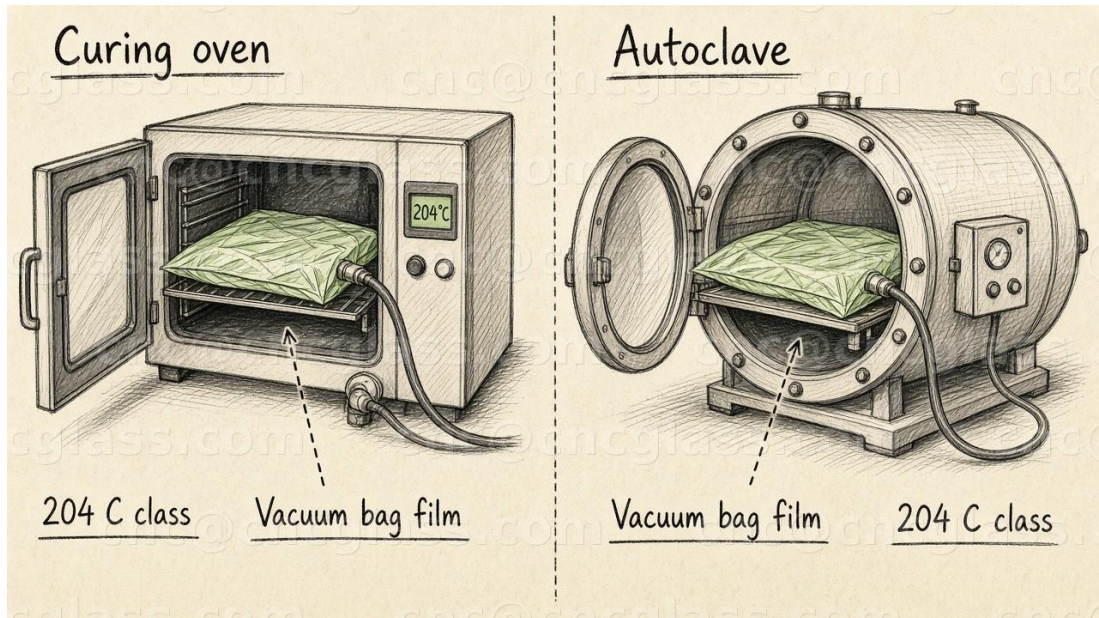


Figure 5. Process (sketch): curing oven and autoclave with 204 °C-class nylon vacuum bag film.

6. Applications

CNCGLASS high-temperature nylon 204 °C vacuum bag film is positioned for:

- Curing-oven vacuum-bag processes for resins and interlayers within 204 °C.
- Autoclave vacuum bagging needing high temperature / pressure barrier performance.
- Composite VARTM / vacuum-bag processes with green nylon film up to 4.5 m width.
- Laminated safety / architectural glass vacuum bagging where nylon bag film fits the line.

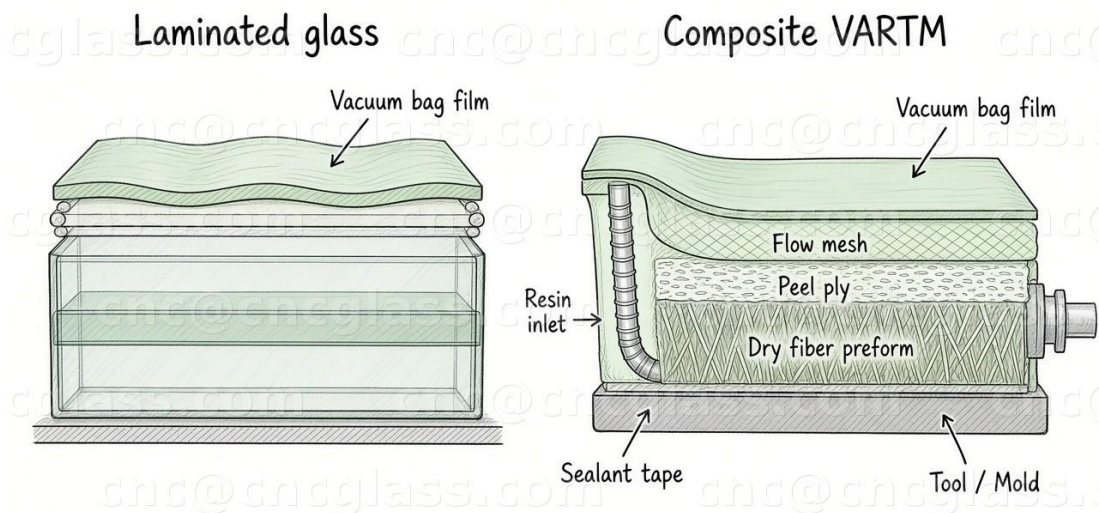


Figure 6. Applications (cartoon): laminated-glass vacuum bagging and composite VARTM.

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. Color: green.

8. Notes for Glaziers & Laminators

- Match thickness (50 / 65 / 75 µm) to part size and edge sharpness.
- Leak-check bags before heat; pinholes defeat vacuum.
- Pair with compatible sealant tape and breather / flow media.
- For autoclave cycles, confirm 204 °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, width, thickness, and 204 °C process confirmation for your oven / autoclave / VARTM line.