

CNCGLASS

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TECHNICAL NOTE

EVA Safety Laminated Glass Interlayer — Development and Applications for Glaziers

A practical overview for glass fabricators and installers

By Peter Lin · CNC Ucolin Interlayer Technology Co., Ltd.

CNCGLASS · 1. What this note is for

This note summarizes how EVA safety interlayer film moved from indoor decorative lamination into outdoor architectural glazing, and what outdoor-grade film should deliver on the shop floor. It is written for glaziers who choose film, set oven cycles, and hand finished laminated glass to site.

CNCGLASS · 2. How EVA interlayer entered building glazing

Approximately speaking, since 2000, EVA interlayer film emerged in the China building-glass market and grew with demand for laminated building materials.

At the beginning, EVA was mainly used indoors — for example portrayed single-glass lamination and laminated glass with decoration inserts. After several generations of formula work for UV blocking and aging resistance, outdoor building applications became practical.

Today EVA laminated glass is widely used outdoors in building glass, automotive glass, curtain wall, skywalks, and related safety glazing — always subject to project specification and local standards.

Evolution of EVA Interlayer for Laminated Glass

From Indoor Decorative Inserts to Outdoor and Advanced Applications

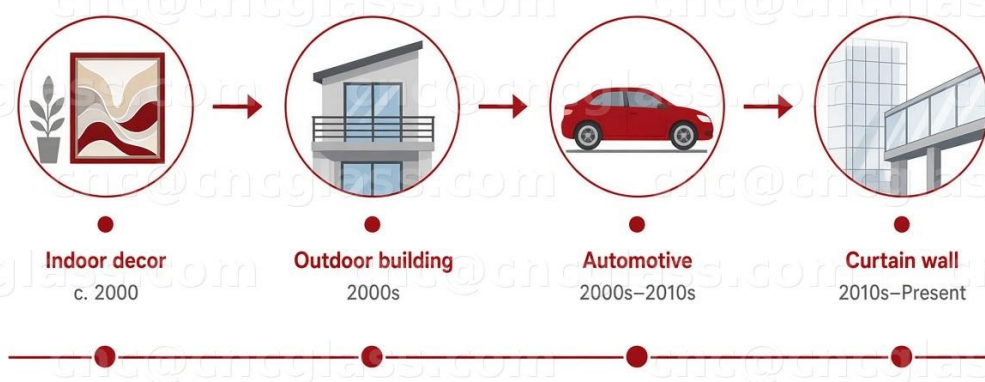


Figure 1 — Indoor decorative lamination toward outdoor building, automotive, and curtain-wall glazing.

CNCGLASS · 3. Why many glaziers run EVA lines

In China there are more than 3000 EVA laminating workshops. Because the capital cost of an EVA vacuum-oven line is typically lower than a full PVB autoclave line, many glaziers choose EVA for decorative and architectural laminated glass where the project accepts EVA.

Equipment and film grades keep evolving. Common types glaziers specify include: color transparent EVA, sandblasting-effect color EVA, milky white, Cool Jade white, Arctic Snow white, black opaque, heat-control EVA, sound-control EVA, and other functional grades.

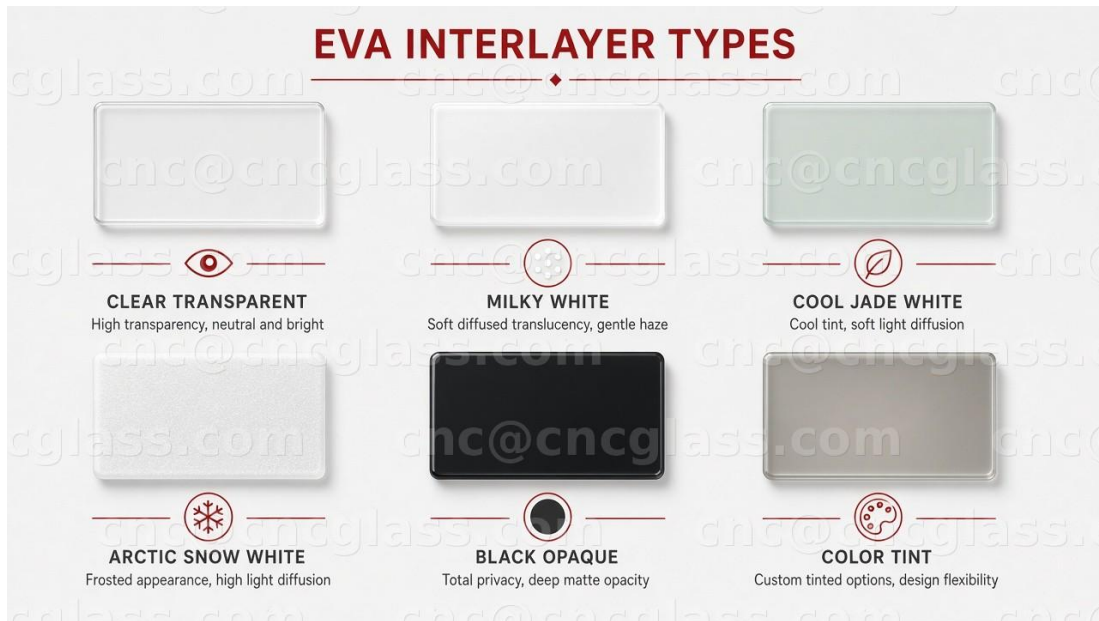


Figure 2 — Interlayer types: clear, milky / jade / snow whites, black opaque, and color tints.

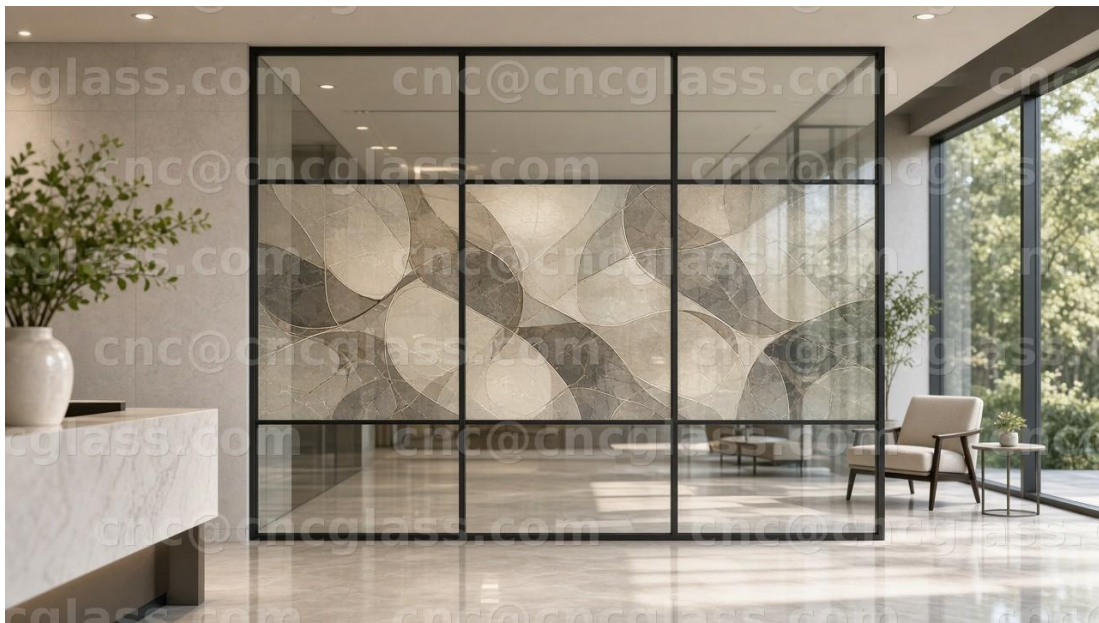


Figure 4 — Application: indoor decorative laminated partition.

CNCGLASS · 4. Milestones that matter on the shop floor

- Recognition: safety, security, UV resistance, and aging resistance of EVA laminated glass became widely accepted among fabricators.
- Wider use: from indoor decoration to outdoor building glass, then automotive, smart-glass / PDLC lamination, and touch-panel style encapsulations where specified.
- Export supply: Chinese-made EVA grades entered European and South American trade channels alongside longer-established brand names — always verify batch TDS and test reports for your market.
- Production quality: dust-controlled mixing and extrusion lines (CNC example: insulated purified warehouse from 2009 with multiple lines) support more consistent additive mixing and optical grade.

CNCGLASS · 5. Outdoor-grade EVA — what glaziers should check

In China, architectural laminated safety glass has long been referenced to [GB 15763.3-2009](#) (Safety glazing materials in building — Part 3: Laminated glass). That edition is being replaced by [GB/T 15763.3-2025](#) (published 2025-10-31, implementation 2026-08-01). Design to the edition your contract and local authority require.

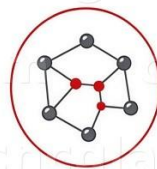
For outdoor EVA laminated glass, fabricators typically watch the following film / laminate properties (confirm on the film TDS and your process trials):

- Super transparent appearance for clear outdoor sightlines.
- Cross-link rate: linked to water resistance, aging resistance, and delamination resistance. For outdoor use, the source guidance states cross-link rate must be more than **50%**. Many outdoor EVA TDS examples target higher cured cross-link after a correct cycle — follow the grade you buy.
- Keep haze as low as practical for the grade (clear outdoor vs decorative whites differ by design).
- UV blocking (about 280–400 nm in the source wording): blocking rate should be more than **98%**; CNC outdoor clear film is stated at **99%** UV blocking. High-energy UV can age the polymer network if the package is weak.
- Adhesive strength to glass: determines retention and safety performance of the finished laminate — verify peel / adhesion per the method on your TDS.

OUTDOOR EVA LAMINATED GLASS CHECKLIST



Super clear
transparency



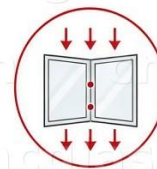
Cross-link rate
over 50 percent



Low haze



UV block
over 98 percent



Strong glass
adhesion

Figure 3 — Outdoor checklist: clarity, cross-link, low haze, UV blocking, adhesion.



Figure 5 — Application: outdoor curtain wall / skywalk laminated glass.

- Match film grade to exposure: indoor decorative vs outdoor-rated clear / functional EVA.
- Read the TDS for cured cross-link, UV block, haze, adhesion, and recommended oven profile before first production run.
- Qualify outdoor jobs against the laminated-glass standard edition named in the project (2009 or 2025/GB/T as applicable) plus local building rules.
- Keep vacuum, temperature, and cool-down discipline — outdoor edges fail first when cure or de-airing is short.
- Archive batch reports with the job so site QA can trace the interlayer.

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