

CNCGLASS

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TECHNICAL NOTE

EVA Thermal Cutter for Cleaning SGP Interlayer Overflow on Laminated Glass Edges

By Peter Lin

CNCGLASS · 1. Purpose and Scope

This technical note answers a frequent processor FAQ in formal B2B language: can a CNCGLASS EVA thermal cutter trim edge overflow from SGP / SentryGlas® ionoplast laminated glass, in the same way it trims EVA and PVB overflow? The short answer is Yes — because cutting relies on controlled heat, not on mechanical sharpness against room-temperature stiffness. Product settings, blade selection, and safe-use guidance on the current CNCGLASS thermal-cutter page and instruction sheet prevail over this overview.

CNCGLASS · 2. Why SGP Stiffness Raises the Question

SentryGlas® ionoplast interlayer (commonly abbreviated SGP in the trade) is widely cited by the manufacturer for approximately five times the tear strength and about 100 times the rigidity of conventional PVB interlayer. Processors therefore ask whether a handheld thermal cutter that works well on EVA / PVB overflow can still trim stiff SGP overflow at the laminated-glass edge.

These 5× tear-strength and 100× rigidity figures are manufacturer comparative claims for SentryGlas® / ionoplast versus conventional PVB — not CNCGLASS laboratory results. Use the trademark SentryGlas® and follow the current grade Technical Data Sheet (TDS) for any contractual wording.

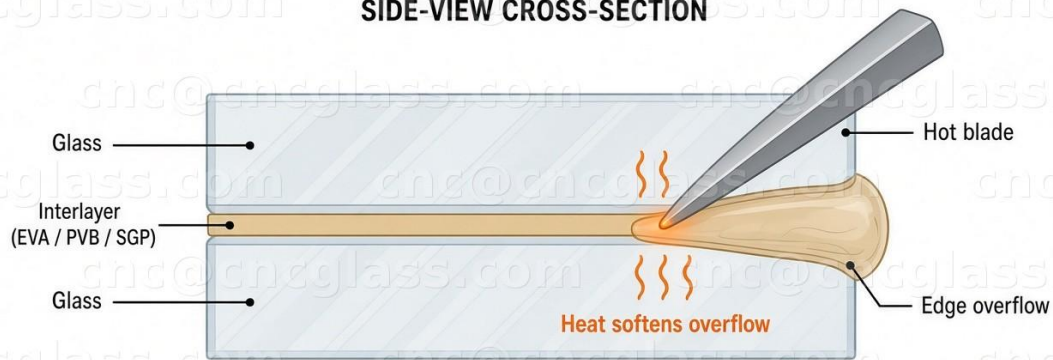
CNCGLASS · 3. How Thermal Cutting Works (Heat vs Sharpness)

The CNCGLASS EVA thermal cutter does not rely on shearing a cold, high-modulus polymer with blade sharpness alone. The heated blade softens / locally melts the overflow polymer so that the excess can be trimmed cleanly along the glass edge. At typical room temperature, SGP ionoplast is much stiffer than PVB; under the cutter's heat, the overflow becomes workable for thermal trim.

CNCGLASS product literature states that the blade can reach up to about 500 °C within seconds. That ceiling is a capability claim — operators should use the lowest effective set-point that still cuts cleanly (CNCGLASS cutter guidance often notes adjustable settings, for example about 300 °C when that is sufficient) to prolong blade and tool life, reduce smoke, and avoid warping the blade by burning residue onto it.

LAMINATED GLASS EDGE FINISHING

SIDE-VIEW CROSS-SECTION



Technical Note: Controlled heat softens the polymer overflow for clean removal without damaging the glass edge.

Figure 1 — Principle: heated blade softens / melts interlayer overflow at the laminated-glass edge (Glass | interlayer | overflow + heat).

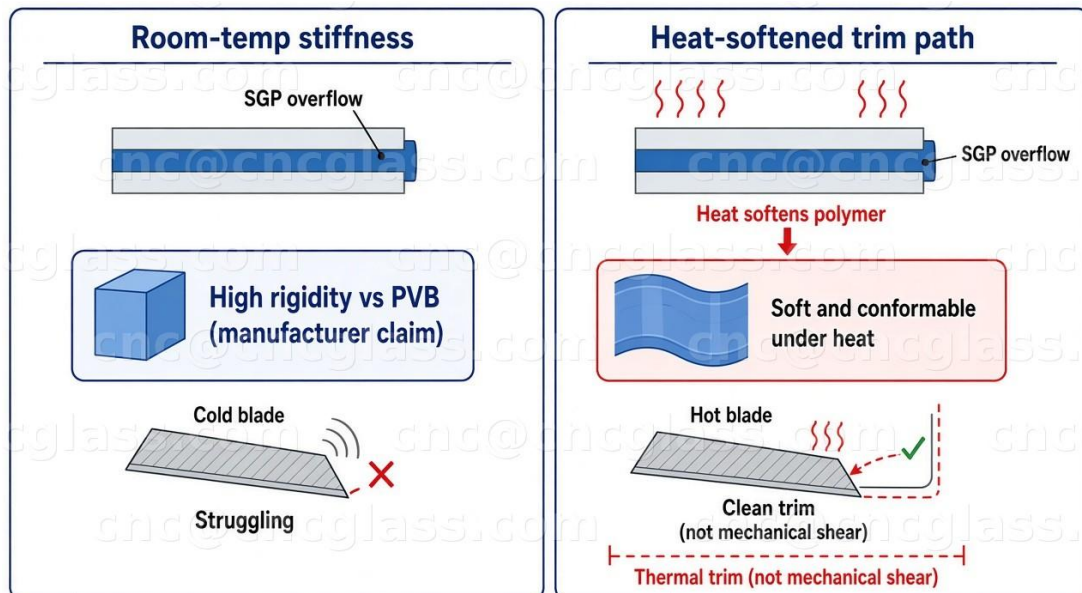
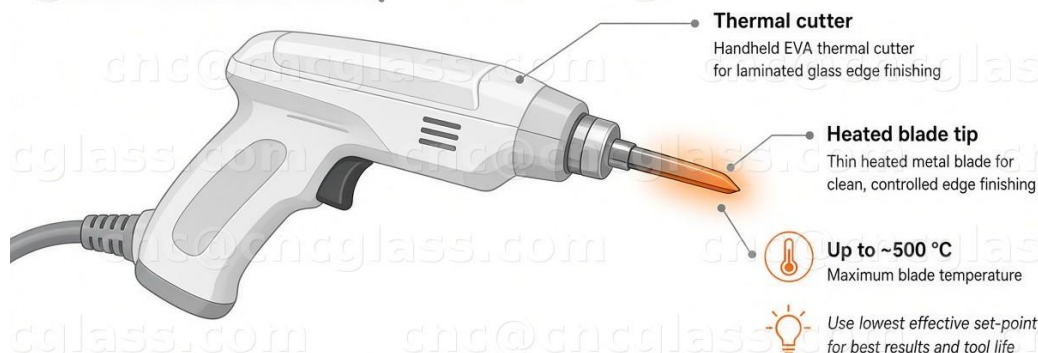


Figure 2 — Stiffness vs trim: room-temperature rigidity of SGP overflow vs heat-softened thermal trim path (schematic).

Handheld EVA Thermal Cutter Tool

For laminated glass edge finishing



Technical Note

For laminated glass edge finishing. Always use on clean glass edges. Avoid excessive temperature or dwell time. Follow equipment instructions and workplace safety practices.

Figure 3 — Tool cue: handheld thermal cutter with heated blade; up to ~500 °C — use the lowest effective set-point.

CNCGLASS · 4. Suitability for EVA / PVB / SGP Overflow

Answer retained from source practice: Yes — the CNCGLASS EVA thermal cutter can clean SGP / SentryGlas® laminated-glass edge overflow remains, as well as EVA and PVB overflow, because trimming is driven by ultra-high blade temperature rather than by cutting force through room-temperature rigidity.

- EVA overflow — routine thermal trim after vacuum-oven / autoclave lamination.
- PVB overflow — same heat-trim principle; adjust set-point and travel speed to the film grade.
- SGP / ionoplast overflow — still suitable because heat softens the overflow polymer; select a blade rated for ionoplast / SGP edge trim per the current CNCGLASS cutter guide (do not invent SKUs).
- Always verify on scrap / first pieces for the specific glass build-up, overflow thickness, and local voltage / plug model.

Product / video reference: <https://www.cncglass.com/thermal-cutter/>

CNCGLASS · 5. Lamination vs Trim Temperature Context

Older / some SentryGlas® autoclave guides cite roughly 120–130 °C (about 250–267 °F). Newer SentryGlas® Xtra-type guides often cite about **132–135 °C**.

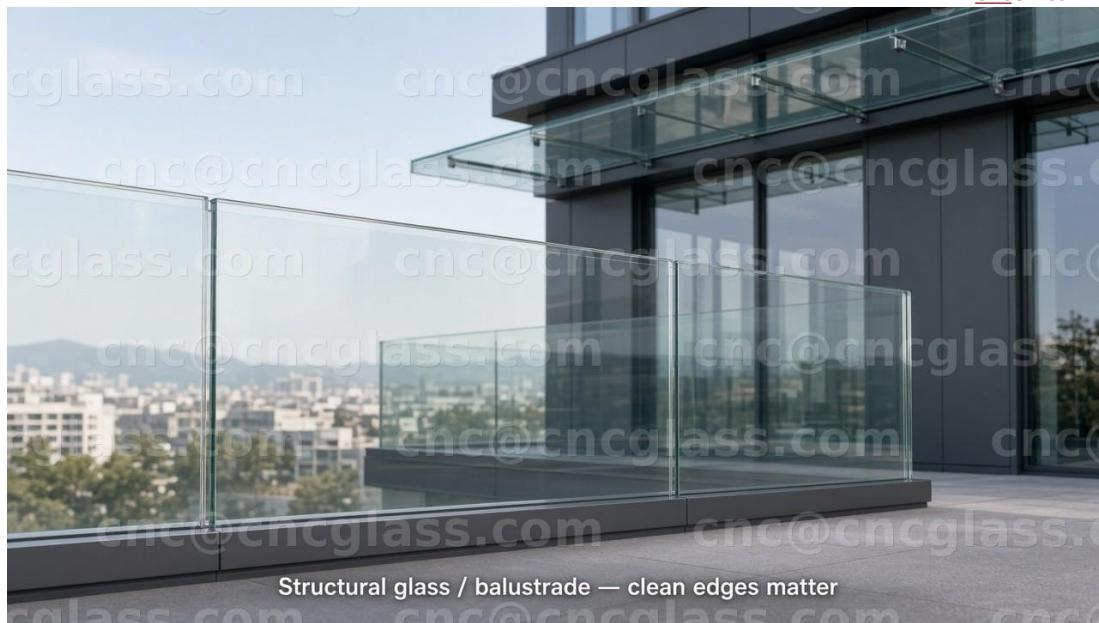
Important distinction: lamination cycle temperature (oven / autoclave) is not the same as the thermal-cutter blade set-point used later for edge overflow clean-up. Blade heat (up to ~500 °C capability; use lowest effective) acts only on the thin overflow bead at the edge — not as a substitute for the laminated-glass process recipe.

CNCGLASS · 6. Safe Practice Checklist

- Use the lowest effective temperature set-point that still cuts cleanly; do not run the blade red-hot if a lower setting works.
- Ventilate the work area; wear appropriate PPE (eye protection, heat-resistant gloves, and follow local HSE rules).
- Do not burn polymer residue onto the blade — residue can warp the blade and degrade cut quality.
- Unplug before installing or removing blades; allow cooling time for blade, holders, and mounts.
- Select a blade rated for ionoplast / SGP edge trim per the current CNCGLASS cutter guide; CNC01 / CNC02 blade families are not interchangeable.
- Practice on scrap first for the specific SGP / glass build-up; travel steadily along the glass edge without forcing cold material.

CNCGLASS · 7. Application Scenes

Typical uses include structural-glass edge finishing shops cleaning ionoplast / SGP (and EVA / PVB) overflow after lamination, and façade / balustrade / canopy laminate edge clean-up where neat visible edges support both appearance and downstream sealing / installation.



Structural glass / balustrade — clean edges matter

Figure 5 — Application: architectural structural glass / balustrade or canopy — why clean finished edges matter.

This overview may be updated when CNCGLASS cutter models or guidance change. For contractual performance and safe operation, follow the current CNCGLASS thermal-cutter instructions and the interlayer manufacturer's TDS, or contact the team below.

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