

CNCGLASS Product Catalog

SGP Ionoplast Interlayer for Structural Laminated Safety Glass

Super Clear SGP & White Series SGP (Milky White / Sandblasting White)

English

SGP ionoplast interlayer for structural laminated safety glass — Made in China alternative to Kuraray SGP; suited to architectural curtain wall and point-supported facade applications. Available as super clear, milky white, and sandblasting white SGP.

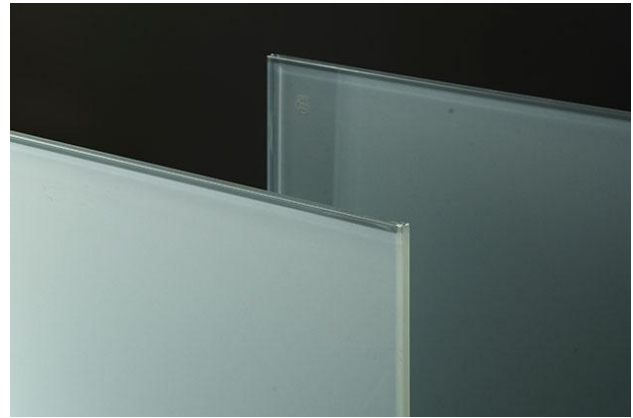
CNC Ucolin Interlayer Technology Co., Ltd. · SHENZHEN, GD, CHINA

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Product List Edition



SGP — laminated safety glass edge detail



White series SGP — milky white and sandblasting white samples

CNCGLASS · Product List / Specifications

SGP ionoplast interlayer for structural laminated safety glass. Standard widths 1600 / 2000 / 2440 mm; other specifications available for customization.

Specifications below. Commercial terms available on request.

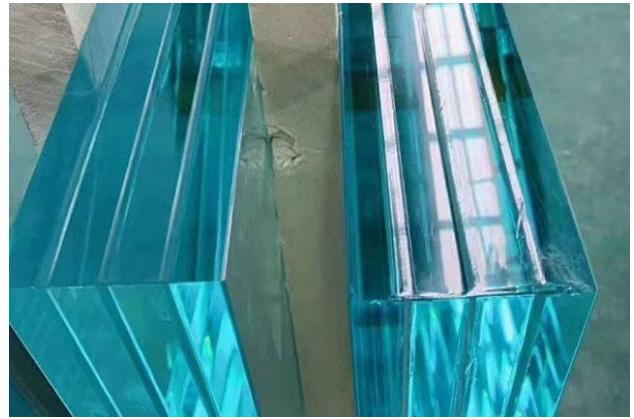
Product	Description	Specifications
Super Clear SGP	Transparent ionoplast interlayer for structural laminated safety glass	0.76 mm; widths 1600 / 2000 / 2440 mm; roll length 100 m
Super Clear SGP	Transparent ionoplast interlayer — thicker grade for higher stiffness	1.14 mm; widths 1600 / 2000 / 2440 mm; roll length 50 m
Super Milky White SGP	Opaque white ionoplast; high privacy — does not transmit light or shadows	0.76 mm; widths 1600 / 2000 / 2440 mm; roll length 100 m
Super Sandblasting White SGP	Translucent white ionoplast; medium privacy — transmits light, isolates shadow	0.76 mm; widths 1600 / 2000 / 2440 mm; roll length 100 m

Note: Other thicknesses, widths, and roll lengths are available for customization upon request.

Product Photos



Super Clear SGP laminated glass — edge clarity



Multi-layer structural laminated glass with SGP



Point-supported facade glass — drilled laminate



Sandblasting / milky white SGP laminated samples



Moisture-barrier packaged SGP rolls on pallet



Plywood export crates ready for shipment

CNCGLASS · Advantages & Technical Features

Super Clear SGP — Advantages

- Exceptional mechanical strength and rigidity for structural laminated safety glass.
- Ultimate edge stability with resistance to high temperature and high humidity.
- Extreme clarity — yellowness index typically below 0.3.
- Superior impact and intrusion resistance versus standard PVB laminates.

Super Clear SGP — Technical Features

Ultimate structural rigidity

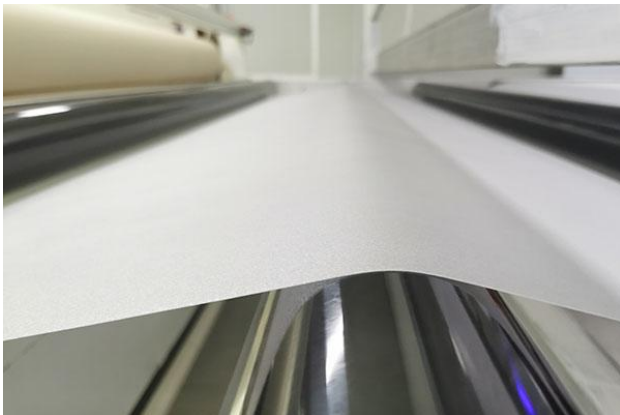
High shear modulus creates strong coupling between glass panes. Overall load-bearing capacity far exceeds that of standard PVB laminated glass, supporting structural and point-supported facade designs.

Excellent edge stability

Outstanding chemical resistance. Edges remain stable under long-term exposure to humid or saline coastal air, making the interlayer suitable for point-supported curtain walls and exposed-edge architectural glazing.

Wide temperature adaptability

Maintains structural strength across wide temperature ranges. In hot climates (for example, the Middle East), the interlayer continues to provide structural support without softening in the manner typical of PVB.



White series SGP — continuous production line



White SGP sheet samples — privacy interlayer grades



SGP production / QC — process monitoring



White series SGP — laminated privacy glass sample

White Series SGP — Specifications

- Super Milky White (opaque): does not transmit light or shadows — high privacy applications.
- Super Sandblasting White (translucent): transmits light while hiding shadows and objects — medium privacy.

White Series SGP — Advantages

- Ultra-high structural strength: approximately 5× ordinary PVB strength and approximately 100× PVB rigidity, with residual load-bearing capacity after glass breakage.
- Excellent edge stability: no delamination or yellowing at edges under long outdoor exposure.
- Privacy with uniform light diffusion — shielding performance while reducing shadows and glare.
- Weather resistance and extreme temperature tolerance: passes 135°C bake and -30°C impact tests.

White Series SGP — Technical Features

- Integrated production (production–study–research) for consistent quality from raw materials to finished rolls.
- Ultra-wide customization: widths up to 4300 mm for large curtain-wall projects.
- Low stress-anisotropy technology: reduces visual distortion and stress-pattern blemishes in large laminated glass.

CNCGLASS · Technical Datasheet — Super Clear SGP

Typical properties for Super Clear SGP ionoplast interlayer (0.76 mm and 1.14 mm).

Property	0.76 mm	1.14 mm
Thickness (mm)	0.76	1.14
Tensile Strength (MPa)	≥34	≥34
Elongation at Break	≥240%	≥240%
Tear Strength (kN/m)	≥120	≥120
Baking Test	16H	16H
Thermal Shrinkage Rate	<2%	<2%
Impact Value	≥7	≥7
Transmittance	>89%	>88.5%
Haze	<0.3	<0.35
Yellowness Index	<0.2	<0.3

CNCGLASS · Process Guide — EVA Vacuum Oven (SGP)

Reference recipe for processing SGP ionoplast interlayer in EVA vacuum ovens. Baseline construction: 6 mm glass + 0.76 mm SGP + 6 mm glass. For thicker interlayer or glass, maintain the same temperatures and prolong holding time at both stages by 10–30 minutes. Oven models and vacuum systems vary; process parameters should be validated on local equipment before production use.

Stage / Parameter	Reference setting
Cold vacuum	5 min (before heating)
Heat to low temperature	10 min ramp to 65°C
Low-temperature hold	65°C for 30 min
High-temperature cook (6 mm & 8 mm glass)	Approximately 3.5 hours at 135°C
Vacuum pressure	Above 101 (instrument scale as used on site)
Loading	One piece per vacuum bag only — do not stack

Please validate these reference settings on your local equipment; oven designs differ and fine-tuning may be required.

CNCGLASS · Process Guide — Autoclave Cycle

Reference autoclave heating cycle for SGP laminated glass.

Parameter	Reference value
Laminating room temperature	22–28°C
Laminating room humidity	18–28%
Glass surface temperature after rolling	63 ± 8°C
Autoclave temperature	135°C (do not exceed 137.8°C)
Autoclave pressure	180–200 psi (12–14 bar)
Hold time	60 minutes (may be extended as required)

Cooling rate

3°C/min

CNCGLASS · Notes

- All process data are reference guidelines. Confirm parameters with local equipment and production trials.
- Product data reflect stated interlayer grades. Custom widths (including up to 4300 mm for white series) and other specifications are available on request.
- This catalog positions CNCGLASS Super Clear SGP as a Made in China ionoplast interlayer option for structural laminated safety glass applications.
- No third-party certification claims are made in this document beyond the stated product properties and process references.

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For quotations, technical samples, or custom specifications, please contact us by email.

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