

Brand: CNCGLASS

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TECHNICAL NOTE

SGP Ionoplast Laminated Glass Radiation Resistance 2000 h: Visible Transmittance Stability and Yellowness Check

By Peter Lin

CNCGLASS · Why long radiation exposure matters

Façade and automotive buyers ask whether a clear SGP ionoplast laminate can hold optical clarity after prolonged radiation. This article restates a 2000-hour radiation campaign on CNCGLASS SGP laminated glass in readable English.

Tech note (public method context): GB/T 5137.3 describes radiation, heat, humidity and related durability checks for safety glazing; clause 5.4 style radiation exposure is commonly used to watch bubbles, cloudiness, ΔT and ΔYI .

CNCGLASS · Product and specimen

Build-up (as tested)

6 mm ultra-clear glass + 0.76 mm clear SGP ionoplast interlayer + 6 mm ultra-clear glass.

Specimen geometry and quantity

Three coupons, each $300 \times 76 \times 12.76$ mm. Samples received November 2022; exposure window December 2022 through March 2023.

CNCGLASS · Method and judgment

Test item: radiation resistance, 2000 h. Judgment focus: irradiated area (excluding edge bands) without bubbles, delamination, cloudiness or discoloration; relative change in visible light transmittance $\Delta T \leq 3\%$; change in yellowness index $\Delta YI \leq 2.0$. Three of three coupons must meet the criteria.

CNCGLASS · Observed results

Specimen	Appearance after 2000 h	ΔT (%)	ΔYI	Judgment
No. 1	No obvious discoloration, bubbles, or cloudiness	0.1	1.2	Complies
No. 2	No obvious discoloration, bubbles, or cloudiness	0.2	1.3	Complies
No. 3	No obvious discoloration, bubbles, or cloudiness	0.0	1.2	Complies

Individual-item and overall conclusion: complies for the submitted CNCGLASS SGP laminate set under the stated client judgment limits.

CNCGLASS · What this means for glaziers and buyers

- Clear SGP stacks can keep ΔT and ΔYI inside tight optical budgets after long radiation holds.
- Still specify glass type (here ultra-clear) because substrate choice affects measured optics.
- Pair radiation data with heat, humidity, and impact evidence for project packages.

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Ask CNCGLASS for SGP ionoplast interlayer film, laminated-glass process support, and specimen data sheets.