CNCGLASS

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TECHNICAL NOTE & PERFORMANCE SUMMARY

CNCGLASS Ionoplast Interlayer Laminated Glass — Transmittance, UV Blocking, Haze and Colour Performance

1. Purpose and Scope

This technical note presents the optical performance of laminated glass fabricated with the **CNCGLASS ionoplast interlayer**. The evaluated properties — visible light transmittance, ultraviolet transmittance, haze and yellow index — determine how clearly and neutrally a laminated glazing transmits daylight, how effectively it shields occupants and interiors from UV radiation, and how free it is of the yellowness that can develop in interlayer materials. The tested construction combines two plies of 5 mm clear glass bonded by a 0.76 mm CNCGLASS ionoplast interlayer.

2. Test Specimens and Methods

Laminated makeup	5 mm clear glass + 0.76 mm CNCGLASS ionoplast interlayer + 5 mm clear glass
Specimen dimensions	100 mm × 100 mm × 10.76 mm
Number of specimens	3 per test item
Transmittance measurement	UV-visible spectrophotometry
Haze measurement	High-precision haze meter

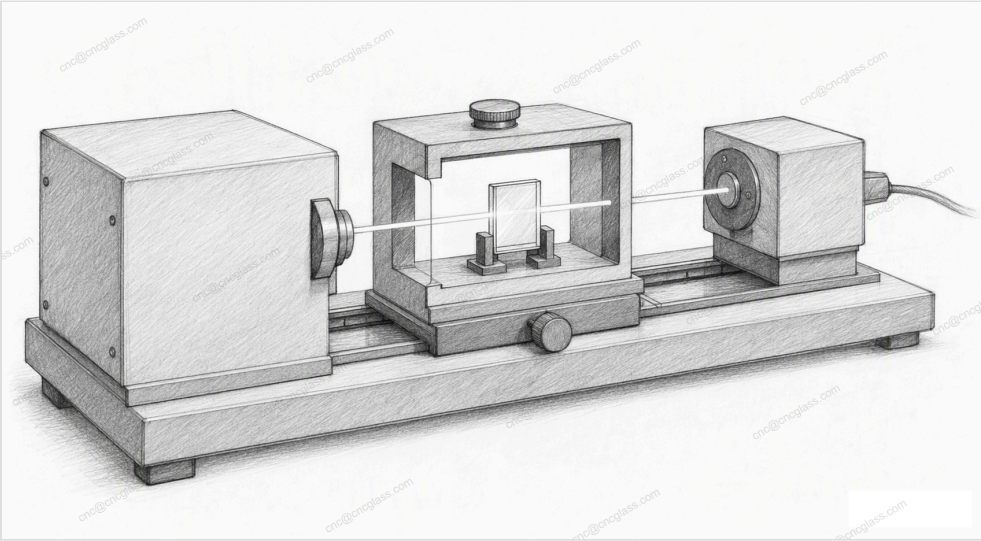


Fig. 1 — Optical measurement: a laminated specimen placed in the spectrophotometer light path for transmittance determination.

3. Test Results

Property	Specimen 1	Specimen 2	Specimen 3	Method basis
Visible light transmittance	90.4%	90.3%	90.4%	GB/T 2680-1994, Clause 3.1
UV transmittance	0.9%	0.9%	1.0%	GB/T 2680-1994, Clause 3.10
Haze	0.27%	0.24%	0.19%	GB/T 2410-2008
Yellow index	0.7	0.6	0.7	HG/T 3862-2006 (2017)

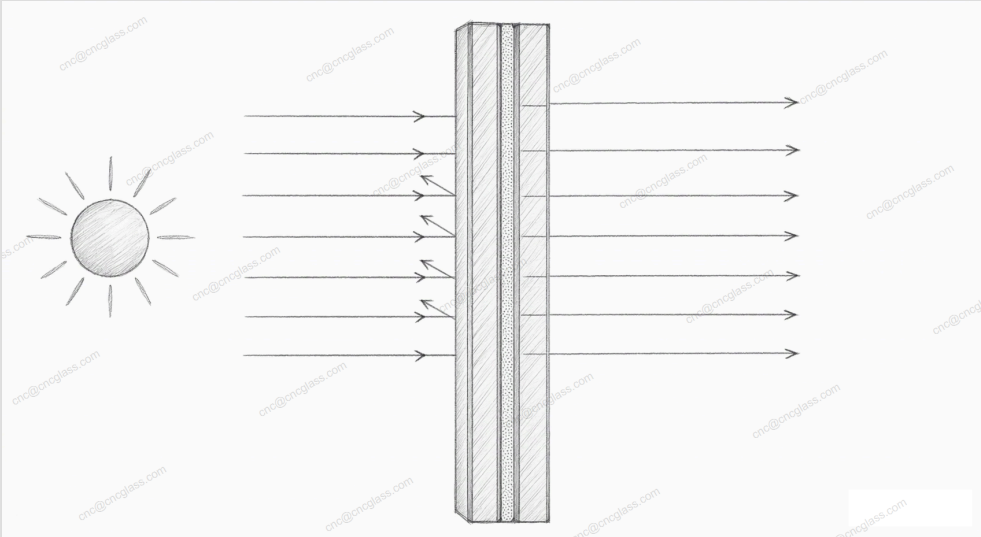


Fig. 2 — Daylight performance: the laminate transmits visible light freely while blocking the ultraviolet component of solar radiation.

4. Discussion

The visible light transmittance of **90.3–90.4%** across all three specimens confirms the optical clarity of the laminate: the 0.76 mm ionoplast interlayer imposes virtually no penalty on light transmission for a two-ply 10.76 mm construction, supporting bright, daylight-rich interiors.

The ultraviolet transmittance of only **0.9–1.0%** means the laminate blocks more than 99% of incident UV radiation. This protects furnishings, fabrics, artwork and display merchandise from UV-driven fading and degradation, and reduces UV exposure for building occupants.

The measured haze of **0.19–0.27%** is exceptionally low, well below the threshold of visual perception, confirming a smooth, optically homogeneous interlayer free of inclusions. The yellow index of **0.6–0.7** — effectively near zero — confirms that the interlayer imparts no measurable yellowness, so the laminate remains water-white and colour-neutral in transmission.

5. Conclusion

The CNCGLASS ionoplast laminated construction (5 mm + 0.76 mm + 5 mm) achieved:

Visible transmittance 90.3–90.4% · UV transmittance ≤ 1.0% · Haze ≤ 0.27% · Yellow index 0.7

The laminate combines daylight clarity with strong UV screening and a colour-neutral, low-haze appearance — the optical profile required for storefronts, museum glazing, skylights and other vision-critical architectural applications.

This document is a CNCGLASS technical note and performance summary. It is not a third-party test certificate or a certificate of conformity, and it does not authorise the use of any third-party laboratory mark.

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