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CNCGLASS TECHNICAL NOTE

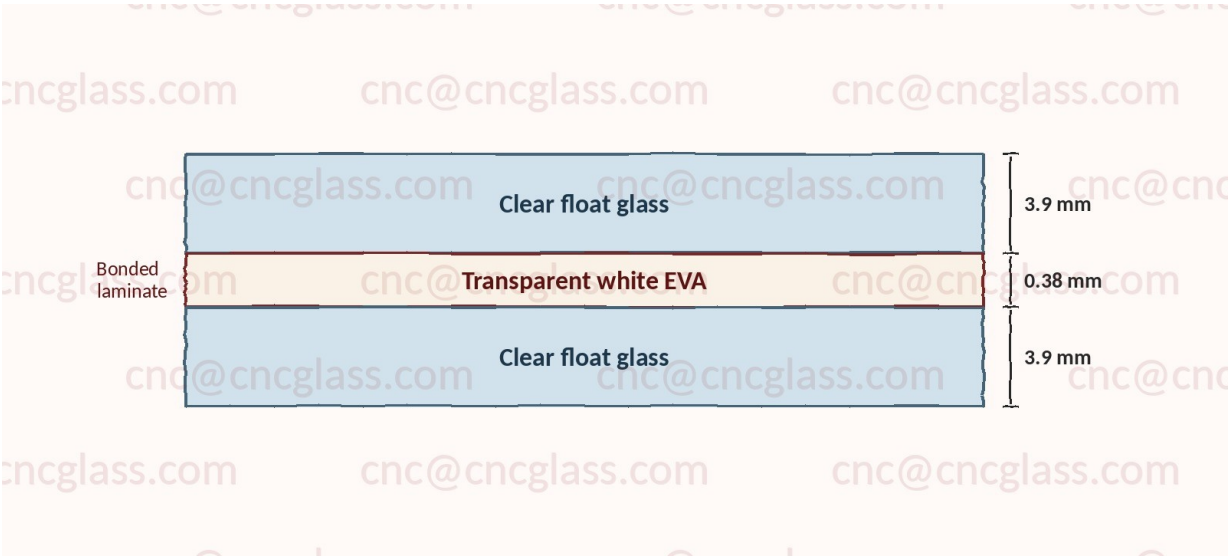
CNCGLASS Transparent White EVA Laminated Glass — Heat and Humidity

A transparent white decorative EVA laminate — 3.9 mm clear float / 0.38 mm transparent white decorative EVA / 3.9 mm clear float — was evaluated for high-temperature resistance and humidity resistance to EN ISO 12543-4:2011. After Procedure A (16 h) and after humidity exposure with condensation (point 6.3.1), none of the six specimen results showed bubbles, delamination or cloudiness. Both items conformed.

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Construction

The makeup is a decorative EVA laminated safety glass: two plies of 3.9 mm clear float glass bonded with a 0.38 mm transparent white decorative EVA interlayer. The nominal thickness is 8.2 mm. Specimens measured 300 mm × 300 mm, with a polished edge and no edge protection. The high-temperature and humidity methods are the same as those used for the companion opaque white construction: EN ISO 12543-4:2011 point 5, Procedure A, for 16 h, and point 6.3.1 with condensation.



Decorative laminate construction: 3.9 mm clear float / 0.38 mm transparent white EVA / 3.9 mm clear float.

High temperature and humidity

Before either exposure, visual inspection found no bubbles, delamination or cloudiness. After each exposure the three specimens were re-measured for thickness and inspected again. No bubbles, delamination or cloudiness were recorded on any specimen.

Exposure	Thickness (mm)	Bubbles / delamination / cloudiness	Conformity
High temperature — specimen 1	8.03	None / None / None	Yes

High temperature — specimen 2	8.12	None / None / None	Yes
High temperature — specimen 3	8.08	None / None / None	Yes
Humidity — specimen 1	8.17	None / None / None	Yes
Humidity — specimen 2	8.23	None / None / None	Yes
Humidity — specimen 3	8.21	None / None / None	Yes

Commentary for laminated-glass use

A transparent white decorative EVA sits between a fully opaque white interlayer and a clear film: it lightens and softens the view through the pane without blocking it. Because this evaluation covers heat and humidity only, it speaks to the bond integrity and visual stability of the 0.38 mm interlayer under oven and condensed-humidity conditions, not to colour shift under prolonged ultraviolet exposure. Those heat and humidity paths are nevertheless the usual first screen for decorative EVA: Procedure A and condensed humidity will reveal inadequate adhesion, residual moisture or an under-cured interlayer as bubbles, delamination or cloudiness, typically starting at an unprotected polished edge.

On this construction every 300 mm × 300 mm specimen remained visually clear of those defects, and the measured thicknesses stayed in a tight band around the 8.2 mm nominal value. The result supports specifying CNCGLASS transparent white decorative EVA in a 3.9 + 0.38 + 3.9 mm clear float makeup for interior decorative panels and similar applications where heat and humidity stability of the bond is required. A separate radiation evaluation should be requested if colour hold under sunlight is part of the project brief.

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