

CNCGLASS

Brand: **CNCGLASS**

Company: **CNC Ucolin Interlayer Technology Co., Ltd.**

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TECHNICAL NOTE

Comparing Visible Light Transmittance and UV Transmission of CNCGLASS EVA Interlayer Film

By Peter Lin

CNCGLASS · 1. Purpose and Scope

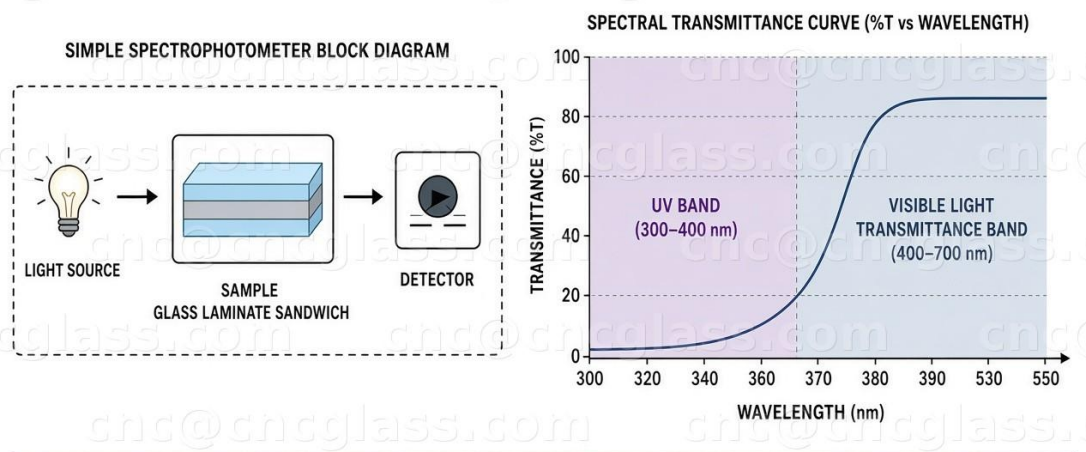
This technical note records an internal comparative spectrophotometer snapshot of CNCGLASS EVA interlayer film — product EVAFORCE® EXTREME — against an unnamed internationally marketed Super Clear EVA comparator. Tester: Peter Lin. Test date: May 26, 2014. Brand for this note is CNCGLASS (CNC Ucolin Interlayer Technology Co., Ltd.); EVAFORCE® EXTREME is the product name under that brand. The note covers spectral transmittance (%T) at selected UV-near and Visible wavelengths and a Visible light transmittance comparison across four lamination cycles.

CNCGLASS · 2. Test Conditions

Conditions retained from the source record (black numbers):

- **Tester:** Peter Lin
- **Test date:** May 26, 2014
- **Instrument context:** spectrophotometer light-transmittance measurement on laminated EVA film samples (method detail such as integrating sphere not fully stated in the source).
- **Lamination cycle (stated for spectral samples):** 85 °C · 15 min then 130 °C · 40 min (85°–15' / 130°–40').
- **Samples:** unnamed “international famous supplier” Super Clear EVA film; CNCGLASS EVAFORCE® EXTREME EVA interlayer film.

Spectrophotometer Spectral Transmission Principle



Note: Conceptual schematic for illustration of spectral transmission measurement principle.

Figure 1 — Spectrophotometer / spectral transmission principle (UV band vs Visible light transmittance band; schematic).

Industry context (brief): clear EVA grades for architectural laminated glass are often marketed with high Visible light transmittance together with UV attenuation near the short-wave edge (commonly discussed around ~380 nm for UV-blocking formulations). This note does not invent a certified CNC cut-off wavelength.

CNCGLASS · 3. Spectral %T — Unnamed Supplier Super Clear EVA

Spectrophotometer light transmittance of Super Clear EVA film samples from an unnamed international supplier (source Table 0). All values below are historical recorded data kept in black.

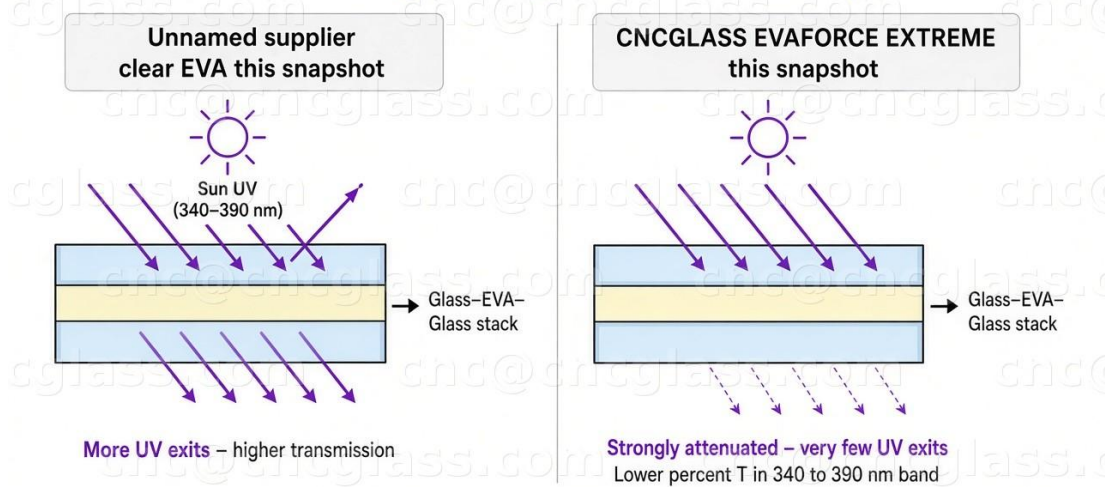
Wavelength	320 nm	340 nm	360 nm	370 nm	380 nm	390 nm	530 nm
%T (supplier)	2.4%	1.5	3.8	9.1	22.1	50.7	88.3%

CNCGLASS · 4. Spectral %T — EVAFORCE® EXTREME

Spectrophotometer light transmittance of CNCGLASS EVAFORCE® EXTREME (source Table 1). Same stated lamination cycle. Values kept black as recorded.

Wavelength	320 nm	340 nm	360 nm	370 nm	380 nm	390 nm	530 nm
%T (EXTREME)	2.4%	1	0.7	0.9	2.1	1.8	87.1%

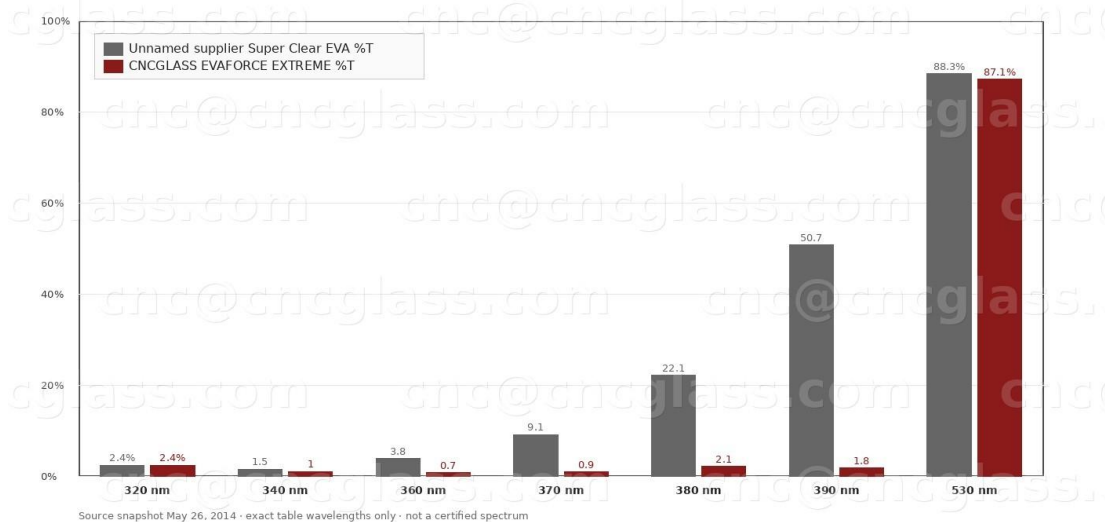
UV Blocking Comparison Conceptual



Note: Schematic only not a certified cut-off claim.

Figure 2 — Conceptual UV-block comparison (this 2014 snapshot): unnamed supplier vs CNCGLASS EVAFORCE® EXTREME.

Spectral %T by wavelength (exact 2014 tables) — supplier vs EVAFORCE EXTREME



Y-axis: spectral transmittance (%T)

Figure 3 — Chart of exact table wavelengths and %T values (supplier vs EXTREME) — recorded numbers only.

CNCGLASS · 5. Visible Light Transmittance by Lamination Cycle

Source heading “Visible Light Transmittance Comparing” is retained here as Visible light transmittance comparison across four time/temperature cycles (source Table 2). Numbers kept black.

Sample	85 °C–15' / 130 °C–40'	85 °C–15' / 130 °C–90'	85 °C–15' / 140 °C–20'	85 °C–15' / 140 °C–40'
EVAFORCE® EXTREME	91.05	91.03	90.30	90.80
Unnamed supplier Super Clear	90.83	91.50	91.08	91.05

CNCGLASS · 6. Interpretation — UV vs Visible Light Transmittance

UV band honesty (this snapshot): across 340–390 nm, EVAFORCE® EXTREME %T values are much lower than the unnamed supplier (e.g. 380 nm: 2.1 vs 22.1; 390 nm: 1.8 vs 50.7). That supports a clear UV-blocking advantage in this internal comparison. Visible light transmittance honesty (this snapshot): at 530 nm, EXTREME is 87.1% vs supplier 88.3% (slightly lower). Cycle-table Visible light transmittance values are comparable; the supplier is equal or higher on several cycles (e.g. 91.50 / 91.08 / 91.05 vs EXTREME 91.03 / 90.30 / 90.80). Soft conclusion: UV blocking advantage is clear in this snapshot; Visible light transmittance is comparable, not uniformly superior.

UV positioning (soft): relative to the comparator in this test, EVAFORCE® EXTREME helps reduce UV transmission through the laminate. This is not a medical claim about protecting human health, nor a certified furniture-fade warranty.

CNCGLASS · 7. Limits of This Internal Test

Limits: Not a substitute for project qualification, third-party accreditation, or current grade Technical Data Sheet (TDS) optical claims.

CNCGLASS · 8. Brief Product Positioning

EVAFORCE® EXTREME under Brand CNCGLASS is positioned for architectural safety laminated glass where clear appearance, mechanical robustness, and indoor/outdoor use matter. Soft optical note only: processors sometimes evaluate UV attenuation together with Visible light transmittance for façades, partitions, and interiors — project-specific selection applies.

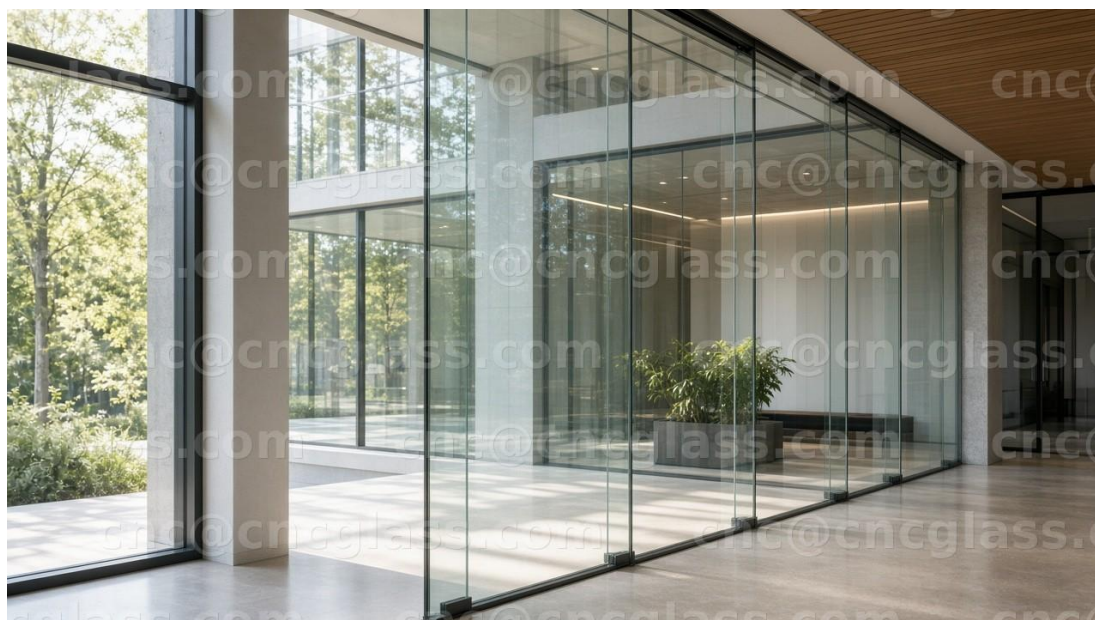


Figure 4 — Application: façade daylight / laminated-glass partition.



Figure 5 — Application: interior / furniture behind laminated glass (UV relevance context).

For contractual optical performance, follow the current CNCGLASS grade TDS and agreed measurement method, or contact the team below. This overview may be updated when new internal or third-party data are released.

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