

CNCGLASS

Brand: **CNCGLASS**

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

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TECHNICAL NOTE

Comparing Peel Adhesion Strength of CNCGLASS EVA Interlayer Film

By Peter Lin

CNCGLASS · 1. Purpose and Scope

This technical note records an internal comparative peel (adhesion) test of CNCGLASS EVA interlayer film — product EVAFORCE® EXTREME — against an unnamed internationally marketed comparator film. 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.

CNCGLASS · 2. Test Conditions

Conditions retained from the source record (black numbers):

- **Tester:** Peter Lin
- **Test date:** May 26, 2014
- **Peel speed:** 300 mm/min (kept as stated; some TDS cite other speeds such as 100 mm/min — do not replace the source speed).
- **Lamination cycle (stated):** 85 °C · 15 min then 130 °C · 40 min (85°–15' / 130°–40').
- **Samples:** unnamed “famous international supplier” EVA film; CNCGLASS EVAFORCE® EXTREME EVA interlayer film.

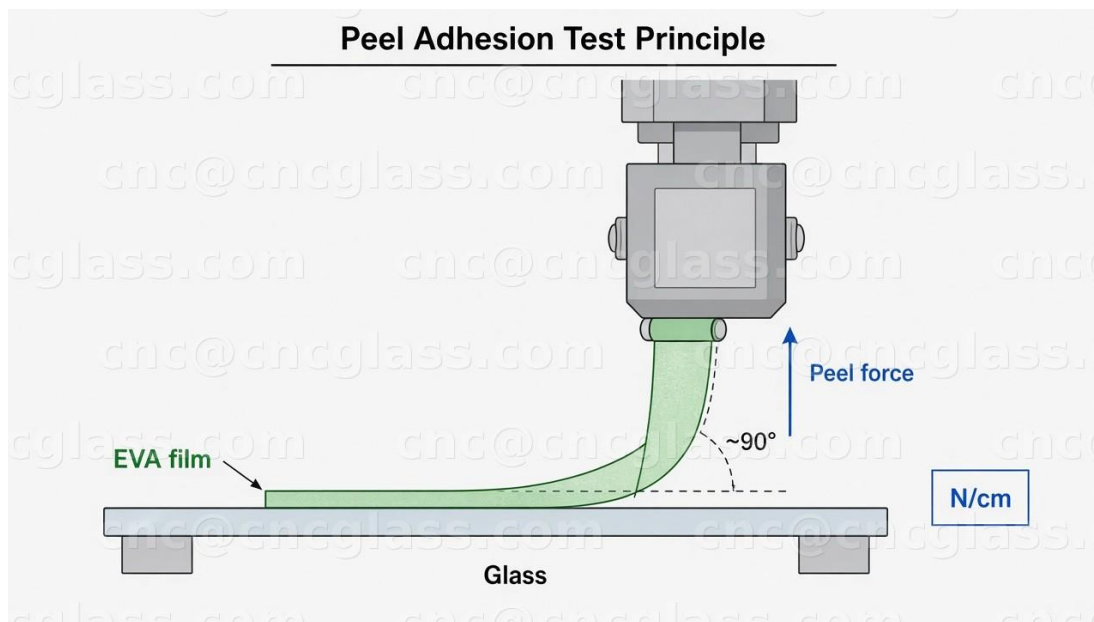


Figure 1 — Peel-test principle: glass fixed, EVA peel arm, force in N/cm (schematic; angle/geometry as illustrated only).

Lamination cycle (stated peel-test condition)



Figure 2 — Stated lamination cycle for the peel specimens: 85 °C · 15 min then 130 °C · 40 min.

Method dependence (context): architectural and PV peel discussions are highly sensitive to peel angle, specimen width, backing, and speed. Some literature / TDS contexts cite good EVA peel often above about 80 N/cm under their backed 180° setups.

CNCGLASS · 3. Results — Unnamed Supplier Film

Observation retained: the supplier EVA film was totally separated from the glass under test. Table values below are historical recorded data (force N and strength N/cm by section).

No.	F1 (N)	S1 (N/cm)	F2 (N)	S2 (N/cm)	F3 (N)	S3 (N/cm)
1	183.816	36.763	181.708	36.342	169.037	33.807
2	196.339	39.268	183.287	36.657	193.937	38.787
3	222.141	44.428	224.827	44.965	214.442	42.888
Max	222.141	44.428	224.827	44.965	214.442	42.888
Min	183.816	36.763	181.708	36.342	169.037	33.807
Average	200.765	40.153	196.607	39.321	192.472	38.494

Section strength averages (N/cm): 40.153 / 39.321 / 38.494 ($\approx$ 40.15 / 39.32 / 38.49).

CNCGLASS · 4. Results — EVAFORCE® EXTREME

Observation retained: the EVAFORCE® EXTREME film was not totally separated from the glass under the same stated conditions. Table values below are historical recorded data.

No.	F1 (N)	S1 (N/cm)	F2 (N)	S2 (N/cm)	F3 (N)	S3 (N/cm)
1	233.496	46.699	194.603	38.921	200.134	40.027
2	301.702	60.340	246.638	49.328	201.988	40.398
3	363.063	72.613	225.514	45.103	209.049	41.810
Max	363.063	72.613	246.638	49.328	209.049	41.810
Min	233.496	46.699	194.603	38.921	200.134	40.027
Average	299.420	59.884	222.252	44.451	203.724	40.745

Section strength averages (N/cm): 59.884 / 44.451 / 40.745 ($\approx$ 59.88 / 44.45 / 40.75).

CNCGLASS · 5. Cycle Matrix Comparison

Additional recorded comparison across four lamination time/temperature cycles (values in N/cm style as in source table 2):

Laminating time & temp	EVAFORCE® EXTREME (N/cm)	Unnamed supplier (N/cm)
85 °C–15' / 130 °C–40'	48.36	39.32

85 °C–15' / 130 °C–90'	53.18	17.80
85 °C–15' / 140 °C–20'	16.82	9.60
85 °C–15' / 140 °C–40'	40.58	43.65

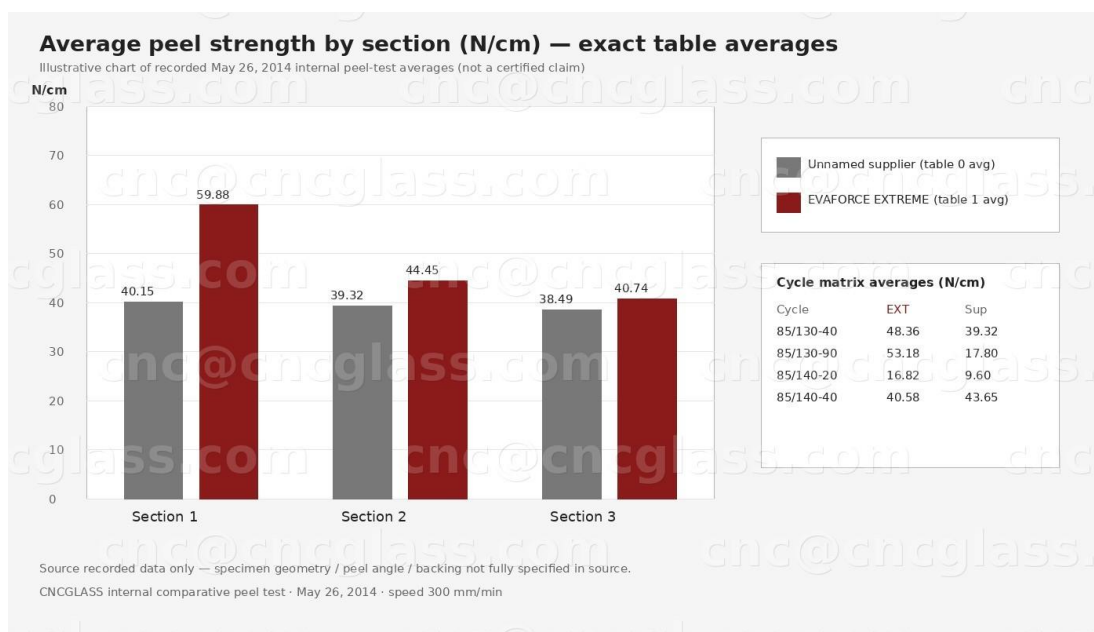


Figure 3 — Chart of exact table averages (N/cm) by section and cycle matrix values — illustrative of recorded trends only.

CNCGLASS · 6. Observations

Under the stated 2014 internal conditions (300 mm/min; 85 °C–15' / 130 °C–40' base cycle), the CNCGLASS EVAFORCE® EXTREME sample showed higher average peel forces in the section tables and did not fully detach from the glass, whereas the unnamed comparator film fully detached. Cycle matrix rows are mixed: EXTREME is higher on three of four cycles; on 85 °C–15' / 140 °C–40' the supplier value (43.65) is slightly above EXTREME (40.58).

Absolute “world-class level” / unnamed-competitor superiority language from the source is softened here to the factual comparison above. Do not invent a competitor brand name or prices.

CNCGLASS · 7. Interpretation and Limits

Peel adhesion between EVA interlayer and glass is strongly influenced by silane coupling chemistry at the glass–polymer interface (see the CNCGLASS three-terminologies note on coupling conceptually). Formulation, coupling-agent level, clean glass surface, and the lamination thermal cycle all affect measured peel — this note does not invent chemistry percentages.

Limits: single-day internal comparison (2014); unnamed comparator; incomplete method detail (peel angle, specimen width, backing); results are not a substitute for project qualification, third-party accreditation, or current grade Technical Data Sheet (TDS) 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 comparative note only: processors sometimes evaluate EVA alongside PVB for selected builds — any “replace PVB” claim must be project-specific and is not an absolute statement in this note.



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



Figure 5 — Application: outdoor canopy / safety laminate edge detail.

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

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