

CNCGLASS

Brand: CNCGLASS

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TECHNICAL NOTE

How to Open Failed EVA Film Laminated Glass

By Peter Lin

CNCGLASS · Failed Laminated Glass — Why Recycle

Failed laminated glass can appear after an EVA (ethylene-vinyl acetate) interlayer cycle — for example bubbles, dirt, insufficient transparency, or haze. Scrapping every failed panel is wasteful. To recycle the glass, the panes must first be opened and separated from the cross-linked EVA interlayer.

This note summarizes two practical CNCGLASS workshop options for opening failed cross-linked EVA laminated glass: a dedicated delamination recycling machine, or banana oil (isoamyl acetate) applied at cut edges.

CNCGLASS · Option 1 — Delamination Recycling Machine

Use a dedicated delamination recycling machine to open failed laminated glass for glass recovery. CNCGLASS publishes workshop videos of this equipment here:

<http://www.cncnext.com/videos-of-delamination-machine-for-recycling-failed-laminated-glass/>

CNCGLASS · Option 2 — Banana Oil (Isoamyl Acetate)

Banana oil in this workshop context means pure isoamyl acetate (also called isopentyl acetate or 3-methylbutyl acetate; CAS 123-92-2), or flavoring mixtures based on isoamyl acetate. It is a colorless liquid with a strong banana / pear odor, slight solubility in water, and high solubility in most organic solvents.

Workshop steps (CNC practical guidance):

- Cut the edges of the cross-linked EVA film with a knife; make the cut reasonably deep so the solvent can reach the interlayer.
- Immerse or place the cut edges in banana oil (isoamyl acetate).
- After the banana oil weakens the adhesive strength of the cross-linked EVA, separate the glass panes.
- If separation is still difficult, re-soak the cut edges and try again.

Safety note (NIOSH / OSHA): isoamyl acetate is flammable (flash point about 25 °C, Class IC). The occupational exposure limit is TWA 100 ppm (525 mg/m³). It can irritate eyes, skin, nose, and throat. Use local exhaust ventilation and suitable PPE. Acetate-family solvents appear in published EVA encapsulant delamination / PV-recycling work; CNC's use of isoamyl acetate for architectural laminated-glass scrap is practical workshop guidance, not a claim that it is the peer-reviewed industry standard solvent for every EVA system.

Further reading: [Wikipedia — Isoamyl acetate](#)



Isoamyl acetate molecular model (banana oil)

CNCGLASS · Prevention — Test Before Mass Production

The best way to avoid failed EVA laminated glass is to run small-sample tests before mass production — confirming oven cycle, lay-up, glass cleanliness, and film thickness on representative pieces first.

If you have further questions about opening failed EVA film laminated glass for recycling, please feel free to contact us.

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