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Custom EVA Film: Making the Sheet Fit the Line

Customization is a specification, not a favor

Standard EVA grades cover a large share of laminated glass and module work. Custom film becomes useful when the standard sheet will not meet a thickness, a color, a cure speed, or an optical package that the design truly needs. The work then is to write those needs down and to trial the result on the machine that will run it, not to collect a unique roll for its own sake.

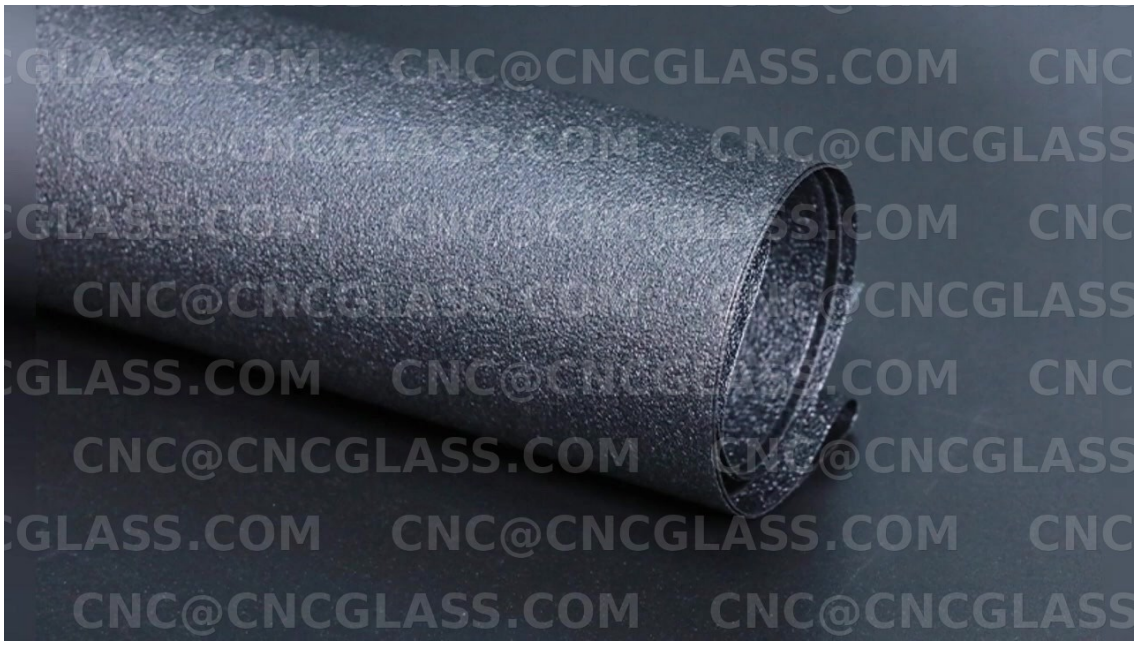


Figure 1. A custom or standard EVA sheet starts as a controlled roll, not as a last-minute cut-off.

Typical requests include a different thickness for a deep insert or a heavier pane, a color that has to match a façade sample, a faster or slower crosslinking system for a given laminator, or a UV and transmittance package aimed at a particular cell or interior. Each of those can be done well. Each can also be done badly if the first shipment is treated as a finished product.

The line is the laboratory that counts

A custom sheet that looks perfect in a small press can wrinkle, under-cure, or miss a color on a production laminator. We therefore treat the factory trial as part of the design. Gel content, appearance, peel, and, in modules, electrical tests should be recorded against the cycle that will be used later. Only then is the custom grade real.

Changes after approval should be slow and announced. A custom film is a qualified material. Silent tweaks undo the work.



Figure 2. On a module line, a customized encapsulant still has to laminate cleanly over the full cell area.

When not to customize

If a standard, well-controlled grade already meets the drawing, we recommend using it. Variety has a cost in inventory, in risk, and in the time needed to requalify. Customization is for the gap that a standard sheet cannot close, not for the pleasure of a unique description.

Used with that restraint, a custom EVA becomes a quiet advantage on the line and in the field, which is the only advantage we are interested in.



Figure 3. The finished array is the reason to customize carefully rather than frequently.

Make the film different only where the product is different, and prove the difference on the production laminator. That is how custom EVA earns a place in a serious bill of materials.

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We can review custom EVA requests for thickness, color, cure speed, and optical package, and plan a production trial with your team.