CNCGLASS
CNC Ucolin Interlayer Technology Co., Ltd.
SHENZHEN, GD, CHINA
Peter Lin · cnc@cncglass.com · WhatsApp / Mobile +86 15013829504
WeChat wecan365 · www.cncglass.com

EVA Film Production and Quality Control

A sheet is only as good as the process that made it

EVA film is used in solar modules, in laminated glass, and in a number of other flexible goods. In every case the finished sheet is the product of a controlled sequence, not of a single lucky run. Understanding that sequence, and the checks that sit on it, is how a buyer should judge a grade.

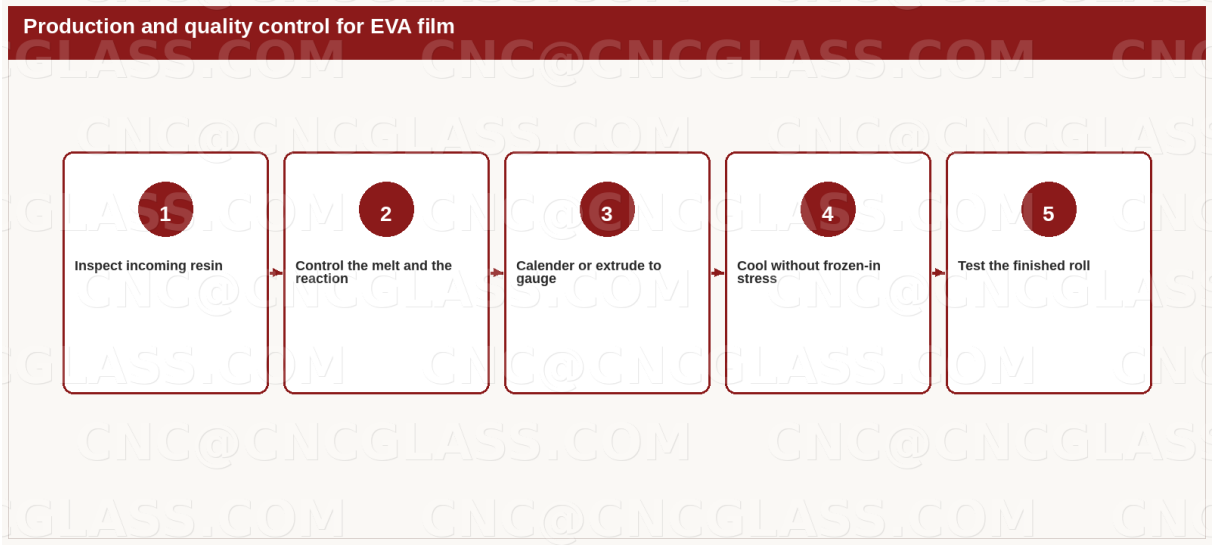


Figure 1. Quality control sits on every step: incoming resin, the melt, forming to gauge, cooling, and finished-roll tests.

Making the film, then proving it

The copolymer is formed from ethylene and vinyl acetate; their ratio, and the additive package, set the character of the grade. The melt is then taken through a reaction or compounding step under controlled temperature and pressure. Cooling and forming follow. A cooling rate that is too abrupt can lock in stress; a rate that is too slow wastes the line and can hurt gauge. The sheet is calendered or extruded to a uniform thickness, and surface condition is watched continuously, because a gauge error or a contamination line will travel into every laminate made from that roll.

Quality control starts with incoming resin and continues through the melt, the forming stack, and the finished roll. Thickness, clarity, and strength are tested before a batch is released. A miss at any of those gates can fail an entire lot. That is why we treat production knowledge as part of the product, and why we ask customers to look at process control, not only at a single attractive sample.

EVA film production is a chain of formulation, melt, forming, cooling, and inspection. Quality control has to sit on every link. A roll that has been made and checked that way is the only kind that should enter a module or a glass laminate.

Contact Us

Brand: CNCGLASS

Company: CNC Ucolin Interlayer Technology Co., Ltd.
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Ask us how we control gauge, clarity, and cleanliness on EVA rolls intended for lamination.