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Where EVA Interlayers Are Used and Why

A map of genuine duties

EVA is a copolymer film with optical clarity, flexibility, and, after a proper cure, strong weather resistance. Those traits have taken it into three large fields: photovoltaic modules, architectural laminated glass, and a share of transport glazing, with a fourth field in specialty decorative and vacuum-furnace work. The advantages are specific to each field, and they should be stated that way.

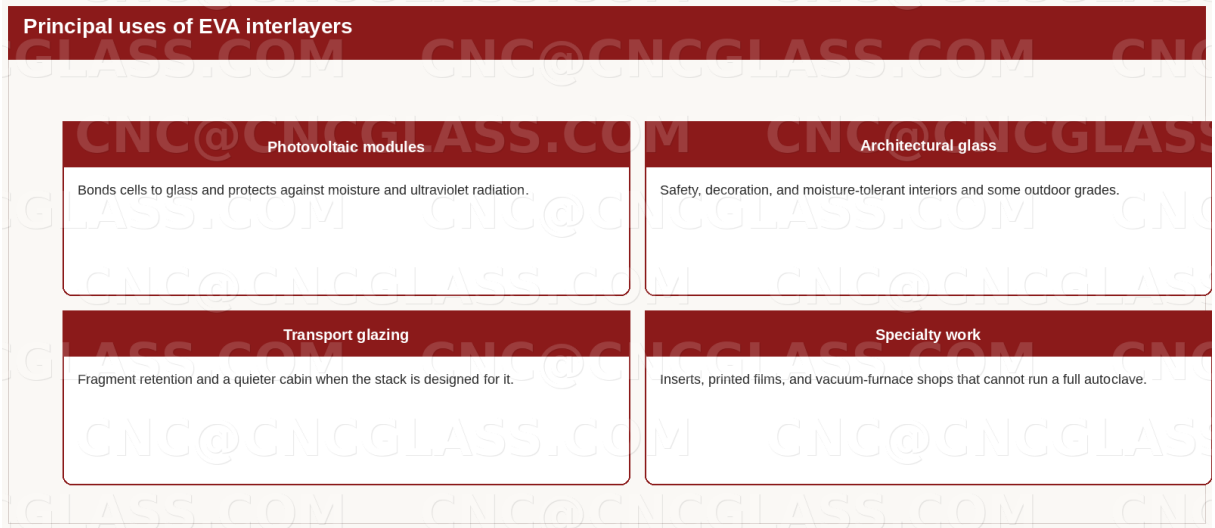


Figure 1. Principal uses of EVA: photovoltaic modules, architectural glass, transport glazing, and specialty decorative or furnace-laminated work.

Modules, buildings, and vehicles

In a photovoltaic module the film encapsulates the cells, bonds them to the glass, and stands between the circuit and moisture, heat, and ultraviolet radiation. High transmittance supports output; stable adhesion supports life. In buildings, EVA is used for safety laminates, decorative inserts, wet interiors, and, when gel content is proven, some outdoor glass. Impact retention, ultraviolet blocking, and a more moisture-tolerant edge than ordinary PVB are the usual reasons.

In vehicles, EVA can appear in certain laminated plates where fragment retention, a quieter cabin, and heat-stable adhesion are required, although PVB remains the dominant windshield interlayer. Elsewhere, vacuum-furnace shops use EVA because they can laminate without an autoclave, and designers use it because fabrics and prints can be enclosed in a cleanable plate. The common advantage is a film that bonds well, stays clear, and can be processed on a wider range of equipment than a classic PVB route. The common caution is to choose a grade that matches the climate and the cycle, rather than assuming one sheet will serve every use.

EVA is used where a clear, adhesive, moisture-tolerant interlayer is needed: modules, many building laminates, some transport glass, and decorative or furnace-laminated work. The 'why' is always the duty, not a general claim that the film is universally better.

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We can help place EVA grades against module, facade, interior, and decorative applications.