

Proven performance in photovoltaic cell encapsulation

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Escorene™ Ultra ethylene vinyl acetate (EVA) resin from ExxonMobil provides an excellent cost/performance balance for the encapsulant sheets used to support and protect the sensitive photovoltaic cells in solar panels.

Helping to meet an increased demand for photovoltaic solar energy

PV-cell encapsulant sheets using Escorene Ultra EVA copolymers offer:

- Optical transparency for high light transmission
- Good adhesion to glass and other polar substrates
- Excellent structural support
- Ease of processability

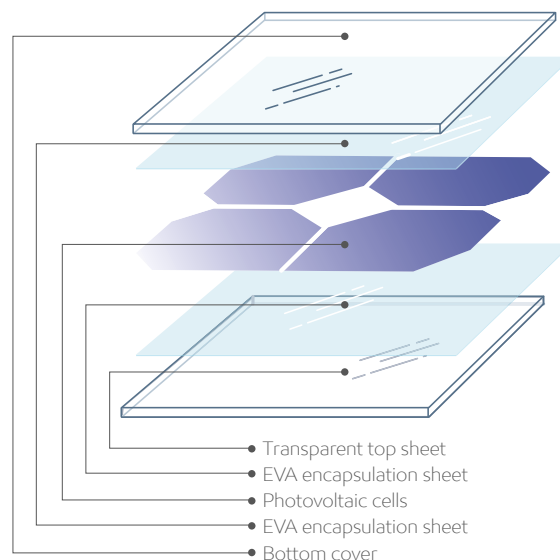
PV solar cell encapsulation

ExxonMobil has specifically developed Escorene Ultra EVA resins to meet the application requirements for the encapsulation of solar cells. They provide an ideal combination of transparency, adhesion, slip and strength, without compromising the performance/price ratio. Encapsulant sheets made from Escorene Ultra EVA resins, and functional additives added by converters, provide the following benefits:

- Excellent optical transparency for high light transmission
- Excellent crosslinking ensuring the necessary structural support for the solar cells and the rest of the module
- Good adhesion to glass and other polar substrates
- Optimum sheet-to-sheet reblocking and high coefficient of friction (COF) so components do not move during construction
- Physical isolation and protection from dampness and other environmental conditions
- Ease of processability, including anti-agglomeration characteristics of the base resin and low temperature processing

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The solar energy industry is growing fast. To meet the increased demand for photovoltaic (PV) solar energy, manufacturers are producing even larger solar panels with higher numbers of solar cells at a faster rate. Materials used in the manufacture of solar panels must meet demanding performance and cost criteria. Solar cells are particularly sensitive, requiring encapsulation that provides a balance of environmental protection, structural support, electrical isolation and transparency for light transmission. Historically, EVA has a proven track record in this application.



Count on ExxonMobil

As a global leader in EVA technology, ExxonMobil is committed to delivering value to the solar PV industry through ongoing investment in its product portfolio, capability and technical support.

With high-performance materials critical for success, ExxonMobil focuses product development efforts on ensuring that Escorene™ Ultra EVA grades continue to meet the needs of manufacturers of encapsulant sheets for solar PV modules in this growing and evolving market.

Supply reliability is key to fulfilling growing demand. As a vertically integrated manufacturer, ExxonMobil can deliver cost-effective manufacturing, advantaged feedstock for global supply reliability, and global specifications for high-quality premium product consistency.

ExxonMobil's manufacturing facilities in Baton Rouge and Antwerp are ISO 9001 certified and ensure product quality through a comprehensive combination of inline process monitoring and product sampling and analysis.

If you're looking for:

- High performance solutions
- Excellent product quality and consistency
- Supply reliability
- Extensive material expertise and knowledge
- Processing expertise and technical support dedicated to EVA applications

Contact us at exxonmobilchemical.com/pe. As polymer experts, we look forward to working with you to enhance the performance of your photovoltaic solar structures.



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