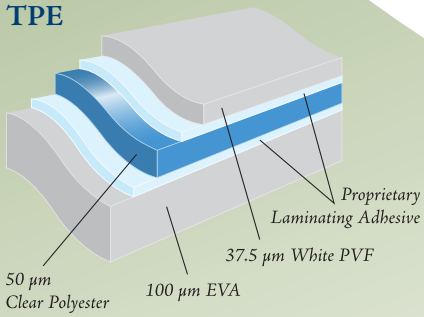
Madico TPE

TPE



Advantages of EVA Layer

- Increased bond strength
- Improved aesthetic appearance
- Increased vacuum lamination throughput
- Width capabilities up to 72 inches

Material Composition	PVF/PET/EVA
Thickness	200 ± 30 µm
Width Range	25 - 1,830 mm
Weight	237 g/m^2
Density	1.2 g/cm^3
PVF Colors	Clear, White, Charcoal, Custom
EVA Colors	Clear, Bright White, Blue, Black, Custom

Stability Characteristics

Tensile Strength at:	
Break (MD)	65 MPa
Break (TD)	83 MPa
Elongation at Break (MD/TD)	144%/89%
Dimensional Stability (MD/TD)*	<1%/1.6%
EVA Peel Strength from EVA Encapsulant	≥70 N/cm
MVTR	≤4 g/m^2 x day*^{2}
Partial Discharge	≥800 VDC*^{3}

* 150C for 30 min
*^{2} ASTM F1249
*^{3} IEC 60664-1
Typical Data – Not Specification

Description

TPE is a multi-layered film lamination designed to be used as a backing sheet for photovoltaic solar panels. It acts as a durable protective barrier for panel shaped electronic devices that undergo heat and vacuum lamination. The TPE construction provides very high bond strength to most encapsulating materials and has excellent dielectric strength.

Available in our patented Bright White Power Boosting Technology

The bright white characteristic of the EVA layer is proven to reflect a portion of light which falls into the spaces between the cells back onto the cell for conversion. The EVA compound with white pigments and fluorescent agents allow for the 1-5% boost in panel power.

Dielectric Bond Technology

DB Technology

Madico has pioneered a more cost-effective and higher performing backsheet construction we call Dielectric Bond Technology (DBT) which eliminates the interior layer of PVF. Compared to the standard PVF/Polyester/PVF design, our innovative construction dramatically increases the laminate's bond strength, power output and insulation against electrical discharge.

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