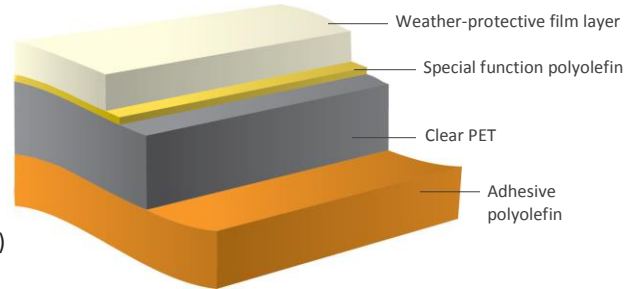


TranSolar[®] TPE Backsheet*

DESCRIPTION:

TranSolar[®] TPE Backsheet is designed for PV module protection. This multi-layered laminate is produced with a high-performance film that when applied to the base dielectric bonding layers of PET/EVA provides superior stability characteristics for vacuum forming and extreme outdoor use.



FEATURES:

- Superior dielectric performance
- Excellent partial discharge and electrical insulation properties
- Exceeds 1,000 volts of the IEC partial discharge test (TUV Management Service)
- Maximum bond strength
- High voltage insulation and weather resistance
- Available in white, black, and clear

TECHNICAL DATA:

PROPERTIES	UNIT	TYPICAL VALUES	METHOD
Construction	-	Weather-protective film layer / Special function polyolefin / Clear PET / Adhesive polyolefin	-
Thickness	µm	424 (300-500)	caliper
Color	-	White/ Clear/ Black	-
Tensile strength (MD)	MPa	180	ISO 527-3, ASTM D-882
Tensile strength (TD)	MPa	200	ISO 527-3, ASTM D-882
Elongation at break (MD)	%	140	ISO 527-3, ASTM D-882
Elongation at break (TD)	%	110	ISO 527-3, ASTM D-882
Heat shrinkage (MD) 150 ° C x 30'	%	1.5	ASTM D-1204
Heat shrinkage (TD) 150 ° C x 30'	%	1	ASTM D-1204
Moisture Barrier(at 38 ° 90% RH)	g/(m ² * day)	< 3	ISO 15106-2, ASTM F1249-90
Layer peel strength	N/10 mm	> 10	T-peel (peak value)
EVA adhesion** (Primer coated side vs. EVA)	N/10 mm	> 50	internal
Partial discharge test	dcV	> 1000	IEC 60664-1

*T refers to Tedlar[®] a registered trademark of DuPont Inc.

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