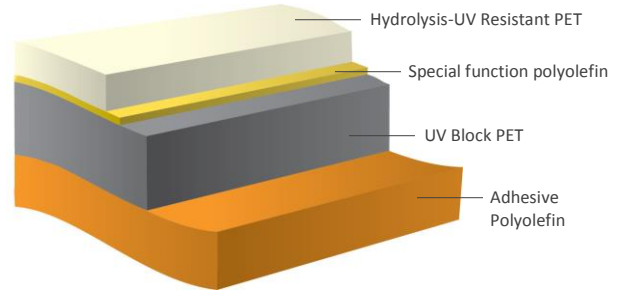


# TranSolar® PPE Backsheet

## DESCRIPTION:

TranSolar® PPE Backsheet is designed for PV module protection. This structured laminate is based on two layers of high performance polyester film and has been specifically engineered to provide superior electrical insulation and weatherability under extreme conditions. The cell side is coated with a specialized adhesive which provides high bonding to ENCAPSULANTS, especially to similar thermoplastic, polyolefin.



## FEATURES:

- Excellent performance under extreme aging conditions (over 3000 hours DHT\*)
- Strong oxygen and humidity barrier
- Long-term resistance to the hydrolysis of adhesives
- Excellent resistance to atmospheric agents
- High voltage insulation
- Available in black, white and clear

## TECHNICAL DATA:

PROPERTIES	UNIT	TYPICAL VALUES	METHOD
Construction	-	Hydrolysis-UV resistant PET / Special function polyolefin / UV block PET / Adhesive polyolefin	-
Thickness	µm	285 (Available 250-650)	caliper
Color	-	White	-
Tensile strength (MD)	N/10 mm	200	ISO 527-3, ASTM D882
Tensile strength (TD)	N/10 mm	230	ISO 527-3, ASTM D882
Elongation at break (MD)	%	160	ISO 527-3, ASTM D882
Elongation at break (TD)	%	90	ISO 527-3, ASTM D882
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 <sup>2</sup> * day)	0.9	ISO 15106-2, ASTM F1249-90
Layer peel strength	N/10 mm	> 10	T-peel (peak value)
Encapsulant adhesion** (Primer coated side vs. Encapsulant)	N/10 mm	> 50	INTERNAL
Partial discharge test	VDC	> 1000	IEC 60664-1

\*tests realized in laminated modules (glass/encapsulant/TranSolar® PPE Backsheet), DHT (Damp Heat Test) at 85 ° C 85% RH (IEC 61215 procedure 10.13)

\*\*Encapsulant layer Corona treatment available upon request (adhesion typically >80N/10mm)

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