

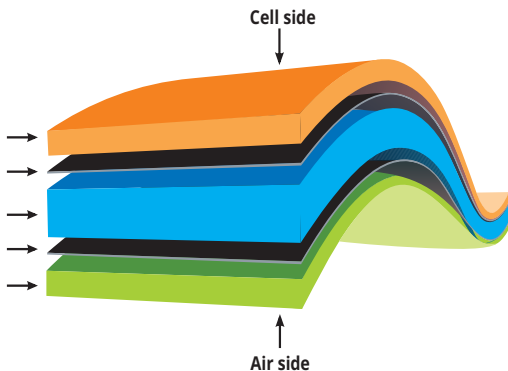
PRESERV 1 - TV

'PRESERV 1 - 150 TV, 300 TV' is a Fluoro (Tedlar[®]) based, UV and weather stable Transparent Backsheet suitable for tropical climatic conditions.

'PRESERV 1 - 300 TV' Backsheet is suitable for PV modules with 1500V system voltage.

STRUCTURE

1. Primer
2. Adhesive
3. PET
4. Adhesive
5. PVF



PROPERTIES - PRESERV 1 - 150 TV

Particulars	Test Method	Unit	Description	Values
Thickness	Micrometre	μm		> 300
Width	Scale	mm		Up to 1305
Tensile Strength @ max. load	ASTM D 882	MPa	MD TD	≥ 100 ≥ 100
Elongation @ break	ASTM D 882	%	MD TD	≥ 100 ≥ 100
Thermal Shrinkage @ 150°C, 30 min.	ASTM D 1204	%	MD TD	≤ 1.5 ≤ 0.5
Interlayer Adhesion Strength	ASTM D 903	N/cm	PVF/PET PET/PRIMER	≥ 5 ≥ 5
Adhesion Strength with Encapsulant	ASTM D 903	N/cm	Backsheet / EVA	≥ 100
Moisture Barrier - MVTR @ 38°C, 90% RH	ASTM F 1249	$\text{g}/(\text{m}^2 \cdot \text{day})$		≤ 1.6
Total Thickness of Layers @relied upon insulation	Micrometre	μm		≥ 300
System Voltage	IEC 61730 - 1	VDC		1000
Optical Transmittance	ASTME - 424	%		91

Width: Up to 1000 mm - all sizes available. Sizes >1000 mm - make to order

PROPERTIES - PRESERV 1 - 300 TV

Particulars	Test Method	Unit	Description	Values
Thickness	Micrometre	µm		> 300
Width	Scale	mm		Up to 1305
Tensile Strength @ max. load	ASTM D 882	MPa	MD TD	≥100 ≥100
Elongation @ break	ASTM D 882	%	MD TD	≥100 ≥100
Thermal Shrinkage @ 150°C, 30 min.	ASTM D 1204	%	MD TD	≤1.5 ≤0.5
Interlayer Adhesion Strength	ASTM D 903	N/cm	PVF/PET PET/PRIMER	≥5 ≥5
Adhesion Strength with Encapsulant	ASTM D 903	N/cm	Backsheet / EVA	≥100
Moisture Barrier - MVTR @ 38° C, 90% RH	ASTM F 1249	g/(m ² · day)		≤1.6
Total Thickness of Layers @relied upon insulation	Micrometre	µm		≥300
System Voltage	IEC 61730 - 1	VDC		1500
Optical Transmittance	ASTME - 424	%		91

Width: Up to 1000 mm - all sizes available. Sizes >1000 mm - make to order

PRESERV 1 - TV



Packing : Unless specified, below is the standard packing of 'PRESERV'

- # Length/Roll: 180 or 230 metres | # No. of Rolls/Pallet: 9
- # Total Linear Metres/Pallet: 1620 or 2070
- # Each roll is wrapped with polyethylene sheet
- # Rolls are palletize vertically placed with top and bottom lid
- # No. of joints/supply: 70% Rolls will be joint-free of 180 LM, however, balance 30% rolls will be with varied joint-free length between 50 LM-180 LM

Note : The above technical information represents the typical range of properties and is believed to be correct as on date. However, this data should not be used to establish specification limits or used as basis for design. Lamination parameters and Quality of other components of the laminate during module manufacturing impact on the overall performance of the module, and hence we recommend the user to carry out intensive trials to test suitability of this product and module laminating conditions. RenewSys gives no warranty and assumes no liability on connection with any use of this information and is subject to the RenewSys general terms and conditions.

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Encapsulant

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