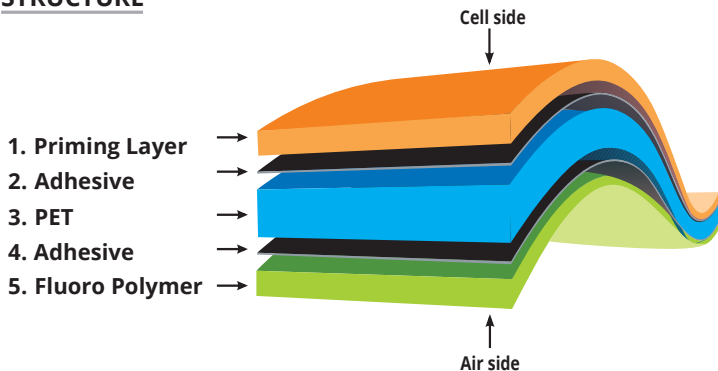


## PRESERV 1 - TF

'PRESERV 1 - 150 TF, 300 TF' is a Fluoro based, UV and weather stable, transparent Backsheet. 'PRESERV 1 - 150 TF, 300 TF' can be used for all Crystalline PV Modules, specially for BIPV and Bifacial.

### STRUCTURE



## PROPERTIES - PRESERV 1 - 150 TF

Particulars	Test Method	Unit	Description	Values
Thickness	Micrometre	$\mu\text{m}$		300
Width	Scale	mm		Up to 1310
Tensile Strength @ max. load	ASTM D 882	MPa	MD TD	$\geq 90$ $\geq 90$
Elongation @ break	ASTM D 882	%	MD TD	$\geq 90$ $\geq 90$
Thermal Shrinkage @ 150°C, 30 min.	ASTM D 1204	%	MD TD	<1.5 <0.5
Interlayer Adhesion Strength	ASTM D 903	N/cm	PVDF/PET PET/PRIMER	>5 >5
Adhesion Strength with Encapsulant	ASTM D 903	N/cm	Backsheet / EVA	$\geq 100$
Moisture Barrier - MVTR @ 38°C, 90% RH	ASTM F 1249	$\text{g}/(\text{m}^2 \cdot \text{day})$		<2
Dielectric Strength	ASTM F 149	kV		20
System Voltage	IEC 61730 - 1	VDC		1000
Optical Transmittance	ASTME - 424	%		$90 \pm 2$

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

## PROPERTIES - PRESERV 1 - 300 TF

Particulars	Test Method	Unit	Description	Values
Thickness	Micrometre	$\mu\text{m}$		360
Width	Scale	mm		Up to 1310
Tensile Strength @ max. load	ASTM D 882	MPa	MD TD	$\geq 100$ $\geq 100$
Elongation @ break	ASTM D 882	%	MD TD	$\geq 100$ $\geq 100$
Thermal Shrinkage @ 150°C, 30 min.	ASTM D 1204	%	MD TD	<1.5 <0.5
Interlayer Adhesion Strength	ASTM D 903	N/cm	PVDF/PET PET/PRIMER	>5 >5
Adhesion Strength with Encapsulant	ASTM D 903	N/cm	Backsheet / EVA	$\geq 100$
Moisture Barrier - MVTR @ 38°C, 90% RH	ASTM F 1249	$\text{g}/(\text{m}^2\text{- day})$		<2
Dielectric Strength	ASTM F 149	kV		20
System Voltage	IEC 61730 - 1	VDC		1500
Optical Transmittance	ASTME - 424	%		90 $\pm$ 2

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

# PRESERV 1 - TF



**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 palletized 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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