

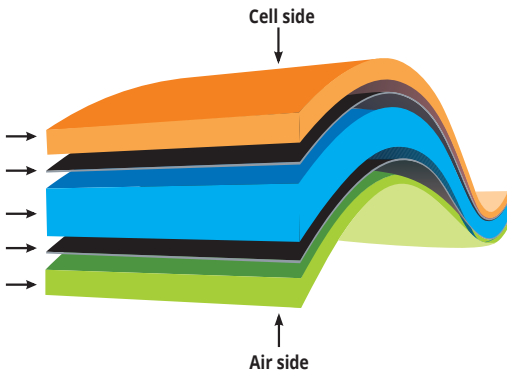
PRESERV 1 - WV

'PRESERV 1 - WV' is a PVF Tedlar[®] based, UV and weather stable White Backsheet. PRESERV 1 - 225 WV, 190 WV, 150 WV can be used for all Crystalline and many Thin - Film PV modules.

'PRESERV 1 - 300 WV' Backsheet is suitable for PV modules with 1500 V system voltage meant for tropical climatic conditions. It can be used for all crystalline PV modules.

STRUCTURE

1. Proprietary Priming Layer
2. Adhesive
3. PET
4. Adhesive
5. PVF - Tedlar[®]



PROPERTIES - PRESERV 1 - 225 WV, 190 WV, 150 WV

Particulars	Test Method	Unit	Description	1 - 225 WV	1 - 190 WV	1 - 150 WV
Thickness	Micrometre	µm		370	335	300
Width	Scale	mm		Up to 1310	Up to 1310	Up to 1310
Tensile Strength @ max load	ASTM D 882	MPa	MD TD	≥90 ≥90	≥90 ≥90	≥90 ≥90
Elongation @ break	ASTM D 882	%	MD TD	≥90 ≥90	≥90 ≥90	≥90 ≥90
Thermal Shrinkage @ 150°C, 30 min.	ASTM D 1204	%	MD TD	<1.5 <0.5	<1.5 <0.5	<1.5 <0.5
Interlayer Adhesion Strength	ASTM D 903	N/cm	PVF/PET PET/PRIMER	>5 >5	>5 >5	>5 >5
Adhesion Strength with Encapsulant	ASTM D 903	N/cm	Backsheet/ EVA	≥100	≥100	≥100
Moisture Barrier - MVTR @ 38°C, 90% RH	ASTM F 1249	g/(m ² -day)		<1.5	<1.6	<1.7
Dielectric Strength	ASTM D 149	kV		24	22	22
System Voltage	IEC 61730 - 1	VDC		≥1000	≥1000	≥1000

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

PROPERTIES - PRESERV 1 - 300 WV

Particulars	Test Method	Unit	Description	Values
Thickness	Micrometre	µm		370
Width	Scale	mm		Up to 1310
Tensile Strength @ max load	ASTM D 882	MPa	MD TD	≥ 100 ≥ 100
Elongation @ break	ASTM D 883	%	MD TD	> 100 ≥ 100
Heat 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 D 903	g/(m ² - day)		≤ 1.6
System Voltage	IEC 61730 - 1	VDC		1500
Total Thickness of Layers @ relied upon insulation	Micrometre	µm		≥ 300

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

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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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Encapsulant

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