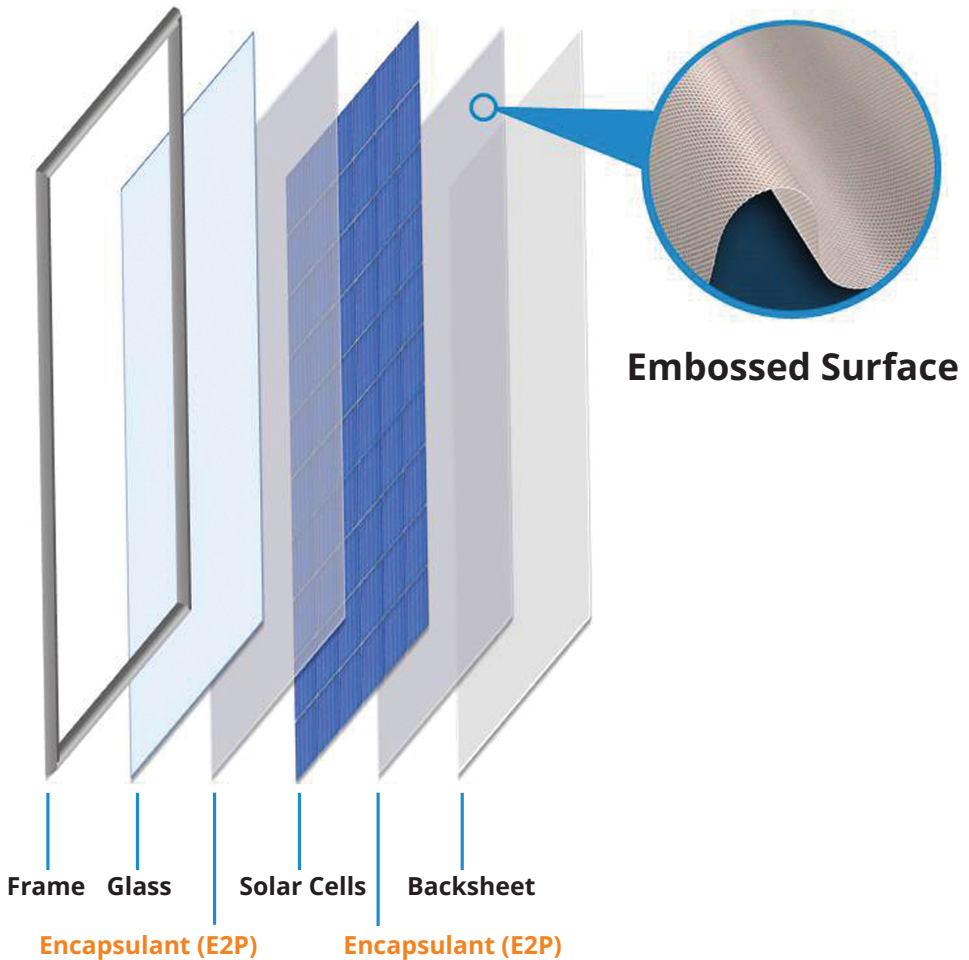


# CONSERV E2P 360

EPE Encapsulant



CONSERV E2P - 360 & CONSERV E2P - UVT' are Polyolefin and EVA co-extruded in layers of EVA POE-EVA. CONSERV E2P is UV, weather stable and is designed to suit Glass-To-Backsheet PV Modules with high efficiency PV Cells.

Innovative formulation of this encapsulant combines and balances critical features of POE and EVA Encapsulants to cover wide range of PV Module designs uniquely with greater ease in processing of lamination. It allows PV Modules comprising blue-light sensitive cells of a given efficiency to generate higher power.

# CONSERV E2P 360

## EVA Encapsulant



### PROPERTIES - CONSERV E2P 360

Particulars	Test Method	Unit	Values
Thickness	ASTM D 6988 - 08	mm	0.550 - 0.65 ± 10%
Width	Scale	mm	Up to 1300
Melting Point	ISO 11357 - 3	°C	60 - 76
Surface type	Visual	Unit	Both Side orange peel embossed
Tensile Strength	ASTM D 638	MPa	10 ± 3
Tensile Strain	ASTM D 638	%	≥ 500
Shore Hardness	ASTM D 2240	Shore - A	70 ± 5
Water Absorption	ISO 62 - 200805	%	≤ 0.1
Adhesion to Glass	ASTM D 903	N/cm	≥ 100
Adhesion to Backsheet	ASTM D 903	N/cm	≥ 100
Thermal Shrinkage	120°C, 3 min. on Glass Plate	%	≤ 2
Optical Transmittance	ASTM E 424	%	≥ 90
UV Cut Off Wavelength	ASTM E 424	nm	360 ± 30
Refractive Index	ISO 489		1.48
Volume Resistivity	ASTM D 257	Ohm.cm	≥ 1 × 10 <sup>16</sup>
Gel Content	Soxhlet Method	%	≥ 70
<b>Lamination Parameters</b>	<b>Single Stage</b>	<b>Double Stage (Stage 1)</b>	<b>Double Stage (Stage 2)</b>
Evacuation Time (Minute)#	3 - 4	3 - 4	
Lamination Time (Minute)	4 - 6	1 - 2	3 - 5
Temperature (°C)*	150 - 160	150 - 160	

•\*Temperature and #Vacuum to be uniformly maintained across the platen of the laminator. #Vacuum to be applied at -760 mm Hg. Periodic calibration of the machine input parameters to be done by Machine user.

•Lamination parameters change with increased width of EPE/Module and/or increased thickness of EPE encapsulant and the same must be re-tuned to arrive at acceptable results.

•With Higher thickness of EPE, there could be few decimal losses of Transparency

Storage Condition and Shelf Life: Store in undamaged original packaging, temperature between 20°C and 30° C and humidity between 50-60% RH. Recommended use within 9 months from date of manufacture.

### PROPERTIES - CONSERV E2P UVT

Particulars	Test Method	Unit	Values
Thickness	ASTM D 6988 - 08	mm	0.550 - 650 ± 10%
Width	Scale	mm	Up to 1300
Melting Point	ISO 11357 - 3	°C	60 - 76
Surface type	Visual	Unit	Both Side orange peel embossed
Tensile Strength	ASTM D 638	MPa	10 ± 3
Tensile Strain	ASTM D 638	%	≥ 500
Shore Hardness	ASTM D 2240	Shore - A	70 ± 5
Water Absorption	ISO 62 - 200805	%	≤ 0.1
Adhesion to Glass	ASTM D 903	N/cm	≥ 100
Adhesion to Backsheet	ASTM D 903	N/cm	≥ 100
Thermal Shrinkage	120°C, 3 min. on Glass Plate	%	≤ 2
Optical Transmittance	ASTM E 424	%	≥ 90
UV Cut Off Wavelength	ASTM E 424	nm	UV Transparent
Refractive Index	ISO 489		1.48
Volume Resistivity	ASTM D 257	Ohm.cm	≥ 1×10 <sup>16</sup>
Gel Content	Soxhlet Method	%	≥ 70
<b>Lamination Parameters</b>	<b>Single Stage</b>	<b>Double Stage (Stage 1)</b>	<b>Double Stage (Stage 2)</b>
Evacuation Time (Minute)*	3 - 4	3 - 4	
Lamination Time (Minute)	4 - 6	1 - 2	3 - 5
Temperature (°C)*	150 - 160	150 - 160	

\*Temperature and #Vacuum to be uniformly maintained across the platen of the laminator. #Vacuum to be applied at -760 mm Hg. Periodic calibration of the machine input parameters to be done by Machine user.

•Lamination parameters change with increased width of EPE/Module and/or increased thickness of EPE encapsulant and the same must be re-tuned to arrive at acceptable results. To realize the advantage of faster cure, evacuation or vacuum pump capacity has to be higher  
•With Higher thickness of EPE, there could be few decimal losses of Transparency

Storage Condition and Shelf Life: Store in undamaged original packaging, temperature between 20°C and 30° C and humidity between 50-60% RH. Recommended use within 9 months from date of manufacture.

# CONSERV EP2 - EVA Encapsulant



PACKING: Unless specified, below is the standard packing of 'CONSERV'

# Length/Roll: 100 Linear Meter | # No. of Rolls/Pallet:

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 in connection with any use of this information and is subject to the RenewSys general terms and conditions.



CONSERV®  
E 360 - POE  
Encapsulant

E2P 360 - 08/2023/2

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