CONSERV E 360
Polyolefin Elastomeric Encapsulant (POE)

Embossed Surface

Frame Glass   Solar Cells   Backsheet

Encapsulant (POE)   **Encapsulant (POE)**

intersolar award
2018 Finalist
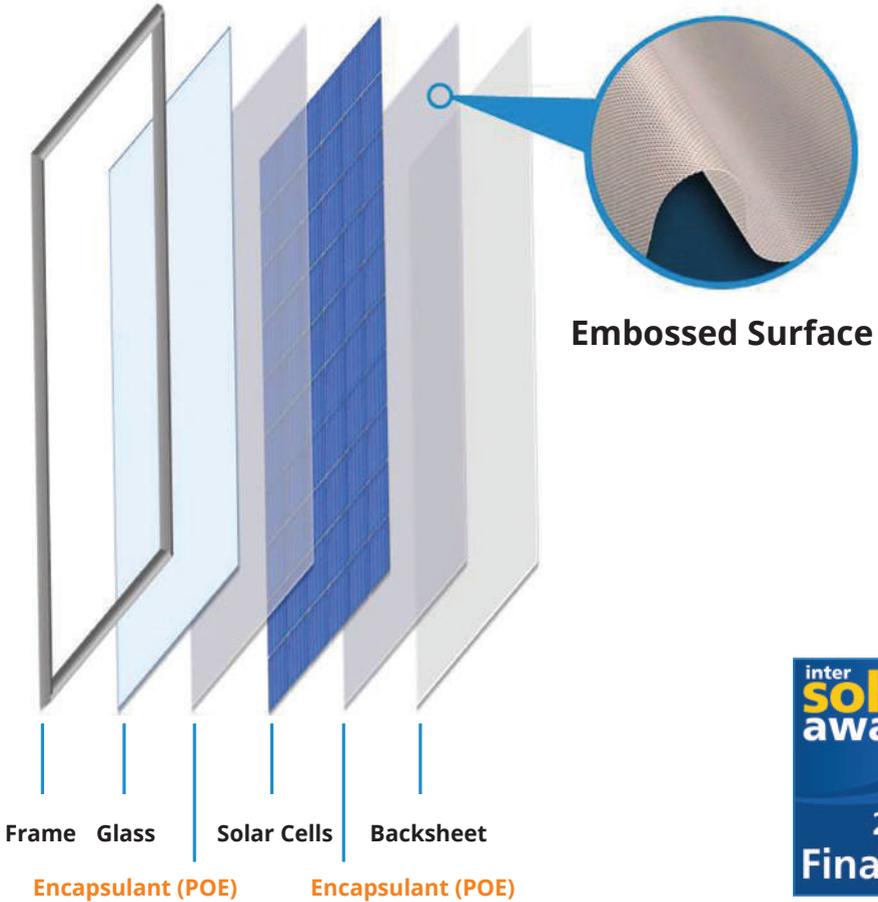
'CONSERV E 360' is a Polyolefin based Encapsulant, UV and weather stable, specially designed to suit Glass - to - Glass and Glass - to - Backsheet PV Modules with high efficiency PV Cells specially Heterojunction Solar PV Cell.
On accounts of its innovative formulation, it combines and balances critical features of POE and TPO Encapsulants to cover wide range of PV Module designs uniquely.

UL Certified. Refer file No. E353124

CONSERV E 360 (POE)

PROPERTIES

Particulars	Test Method	Unit	Values
Thickness	ASTM D 6988 - 08	mm	0.45 ± 5%
Width	Scale	mm	Up to 1240
Melting Point	ISO 11357 - 3	^{0}C	76 ± 2
Surface type	Visual	Unit	Inside: Matt; Outside: Embossed Supplied without Masking Paper
Tensile Strength	ASTM D 638	MPa	12 ± 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	≥ 70
Adhesion to Backsheet	ASTM D 903	N/cm	≥ 70
Thermal Shrinkage	160^{0}C, 5 min. on Glass Plate	%	≤ 2
Thermal Creep	90^{0}C @ 250 hrs	mm	≤ 1
Optical Transmittance	ASTM E 424	%	≥ 91
UV Cut Off Wavelength	ASTM E 424	nm	360
Volume Resistivity	ASTM D 257	Ohm.cm	≥ 1x10^16
Gel Content	Soxhlet Method	%	50 - 80

Lamination Parameters	Single Stage	Double Stage (Stage 1)	Double Stage (Stage 2)
Evacuation Time (Minute)	6 - 10	3 - 4	
Lamination Time (Minute)	12 - 16	2 - 4	7 - 9
Temperature (^{o}C)	150 - 155	155 - 160	

Storage Condition and Shelf Life: Store in undamaged original packaging, temperature: ≤ 25^{0}C and humidity below 60% RH. Recommended to use within 6 months from the date of manufacture.

PACKING: Unless specified, below is the standard packing of 'CONSERV'
Length/Roll: 100 metres | # No. of Rolls/Pallet: 9 or 12 | # Total Linear Metres/Pallet: 900 or 1200
Each roll is sealed in a protective bag in a corrugated box | # Boxes are strapped on suitable pallets

Note: The above technical information represents the typical range of properties and is believed to be correct as on date. This data should however not be used to establish specification limits or used as basis for design. 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.

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