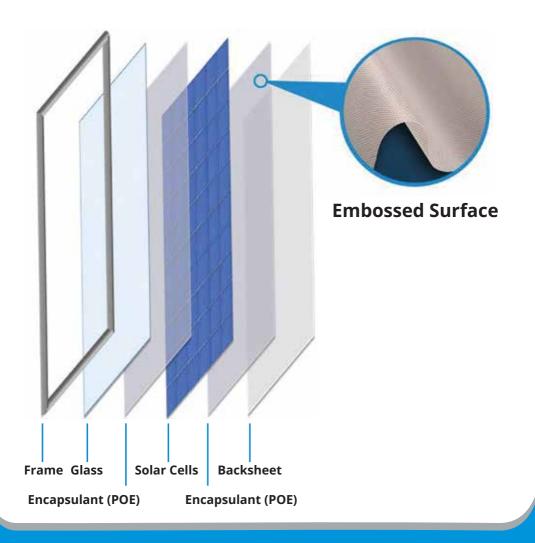
CONSERV E

POE Encapsulant





CONSERV E-360 & CONSERV E - UVT' is a Polyolefin Elastomer based Encapsulant, UV stable and weather stable, specially designed to suit Glass-to-Glass and Glass-to-Backsheet PV Modules with high efficiency PV Cells specially HJT.

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. It allows PV Modules c omprising blue-light sensitive cells of a given efficiency to generate higher power.

UL Certified, Refer File No. E353124

CONSERV E 360

POE Encapsulant



PROPERTIES - CONSERV E 360

| Particulars | Test Method | Unit | | Values |
|-----------------------------------|----------------|------------------------|-----------|------------------------|
| Thickness | ASTM D 6988 | Mm | Vá | alue ±10% |
| Grammange | ASTM D 646 | g/m² | Vá | alue ±5% |
| Width | Scale | Mm | Ul | p to 1500±5 |
| Melting Point | ISO 11357 - 3 | °C | | 65±10°C |
| Surface type | Visual | Unit | Textile \ | Orange Peel \ Pyramind |
| Tensile Strength | ASTM D 882 | MPa | | 12±5 |
| Tensile Strain | ASTM D 882 | % | | ≥600 |
| Shore Hardness | ASTM D 2240 | Shore - A | | 65±5 |
| Water Absorption | ISO 62 - 2008 | % | | ≥ 0.1 |
| Adhesion to Glass | ASTM D 903 | N/cm | | ≥70 |
| Adhesion to Backsheet | ASTM D 903 | N/cm | | ≥70 |
| Thermal Shrinkage @120°c 3 min | ISO 11501-1995 | % | | MD < 3, TD < 1 |
| Optical Transmittance | IEC 62788-1-4 | % | | ≥91 |
| UV Cut Off Wavelength | IEC 62788-1-4 | nm | | 360±30 |
| Volume Resistivity | IEC 62788-1-2 | Ohm.cm | | ≥1x10 ¹⁵ |
| Gel Content | IEC 62788-1-6 | % | | 50-80 |
| Lamination Parameters | Single Stage | Double Stage (Stage 1) | | Double Stage (Stage 2) |
| Evacuation Time (Minute) | 6 - 10 | 5 - 7 | | |
| Lamination Time (Minute) | 12 - 16 | 2 - 4 | | 8 - 10 |
| Temperature (°C) | 140 - 160 | 140- 155 | | |

- Temperature and Vacuum to be uniformly maintained across the laminator. #Periodic calibration of the machine input parameters to be done by Machine user.
- Lamination parameters change with increased width of Encapsulant/Module and/or increased thickness of Encapsulant and the same has to be re-tuned to arrive at acceptable results.
- With higher thickness of Encapsulant, there could be marginal loss in Transparency.
- Storage Condition and Shelf Life: Store in undamaged original packaging, temperature between 20° C to 30° C and relative humidity < 60%. Recommended use within 9 months from date of manufacture.
- It is recommended to use; after opening the package within 8 hours.

CONSERV E UVT

POE Encapsulant



PROPERTIES - CONSERV E UVT

| Particulars | Test Method | Unit | Values | |
|-----------------------------------|----------------|------------|----------------------------------|------------------------|
| Thickness | ASTM D 6988 | Mm | Value ±10% | |
| Grammange | ASTM D 646 | g/m² | Value ±5% | |
| Width | Scale | Mm | Up to 1500±5 | |
| Melting Point | ISO 11357 - 3 | °C | 65±10°C | |
| Surface type | Visual | Unit | Textile \ Orange Peel \ Pyramind | |
| Tensile Strength | ASTM D 882 | MPa | 12±5 | |
| Tensile Strain | ASTM D 882 | % | ≥600 | |
| Shore Hardness | ASTM D 2240 | Shore - A | 65±5 | |
| Water Absorption | ISO 62 - 2008 | % | ≥ 0.1 | |
| Adhesion to Glass | ASTM D 903 | N/cm | ≥70 | |
| Adhesion to Backsheet | ASTM D 903 | N/cm | ≥70 | |
| Thermal Shrinkage @120°c 3 min | ISO 11501-1995 | % | MD<3,TD<1 | |
| Optical Transmittance | IEC 62788-1-4 | % | ≥91 | |
| UV Cut Off Wavelength | IEC 62788-1-4 | nm | Transparent | |
| Volume Resistivity | IEC 62788-1-2 | Ohm.cm | ≥1x10 ¹⁵ | |
| Gel Content | IEC 62788-1-6 | % | 50-80 | |
| Lamination Parameters | Single Stage | Double Sta | ge (Stage 1) | Double Stage (Stage 2) |
| Evacuation Time (Minute) | 6 - 10 | 5 - 7 | | |
| Lamination Time (Minute) | 12 - 16 | 2 - 4 | | 8 - 10 |
| Temperature (°C) | 140 - 160 | 140- 155 | | |

- Temperature and Vacuum to be uniformly maintained across the laminator. #Periodic calibration of the machine input parameters to be done by Machine user.
- Lamination parameters change with increased width of Encapsulant/Module and/or increased thickness of Encapsulant and the same has to be re-tuned to arrive at acceptable results.
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CONSERV EPOE Encapsulant



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

- # Length/Roll: 240 or 300 linear metre & 10% LM variation
- # No. of Rolls/Pallet: 4 & 6, In vertical form.
- # Total Linear Metres/Pallet: 960 or 1800
- # Each roll is sealed in a protective bag and all rolls covered using corrugated sleeve / Outer 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. 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.

