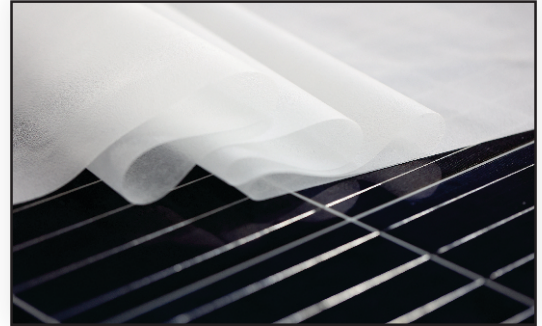
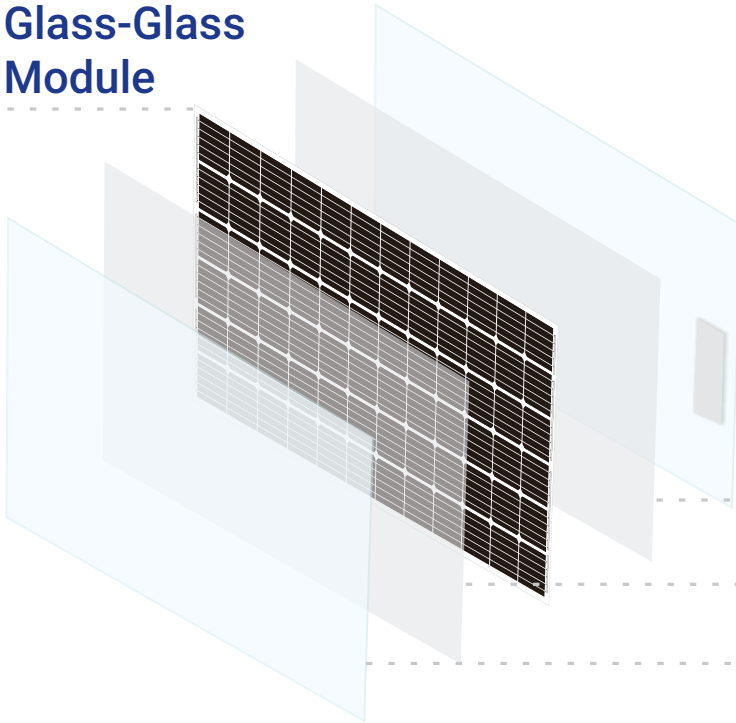


Glass-Glass Module



Glass

Transparent POE

Transparent POE

Glass

ABOUT US

PIXON houses clean room and environment controlled facility up to 1 GW manufacturing line for POE.

PIX POE- E 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.

The POE Encapsulant has been in the line of innovations and available in several versions. The advantages it offers include:

- Improve thermo-mechanical properties for durable performance in and out.
- UV cut-off, which means it protects the solar panels from getting damaged from UV Rays.
- Chemical inertness is another feature that prevents corrosion due to acid gas.
- Improved PID (voltage, heat, and humidity) resistance for superior performance.
- Higher volume resistivity to prevent the current leakage from the insulating material.

Well, the above features qualify the POE encapsulant as a top contender in the marketplace.

CERTIFICATIONS



PIXON GREEN ENERGY PRIVATE LIMITED

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**Solar is
the New Green!**

TECHNICAL DATASHEET

PIX POE - E



Technical Parameters For PIX POE - E

	Particulars	Test Method	Unit	Values
Physical	Thickness	ASTM D 6988-08	mm	0.45 - 0.65 + 10% - 5%
	Width	Scale	mm	Up to 1240
	Melting Point	ISO 11357-3	°C	76 ± 2
	COF	D 1894	NA	<1
	Surface type	Visual	Unit	Inside: Matt; Outside: Embossed Supplied without Masking Paper
Mechanical	Tensile Strength	ASTM D 638	Mpa	13 ± 4
	Tensile Strain	ASTM D 638	%	≥ 550
	Shore Hardness	ASTM D 2240	Shore - A	75 ± 5
Thermal	Water Absorption	ISO 62 - 200805	%	≥ 0.1
	Adhesion to Glass	ASTM D 903	N/cm	≥ 75
	Adhesion to Backsheet	ASTM D 903	N/cm	≥ 75
	Thermal Shrinkage	160°C, 5 min. on Glass Plate	%	< 2.5
	Thermal Creep	90°C @ 250 hrs	mm	1
Optical	Optical Transmittance	ASTM E 424	%	≥ 91
	UV Cut Off Wavelength	ASTM E 424	nm	360 ± 30
Electrical	Volume Resistivity	ASTM D 257	Ohm.cm	≥ 1x10 ¹⁷
Chemical	Gel Content	Soxhlet Method ASTM D 2765	%	≥ 55 - 85

Lamination Properties	Lamination Parameter	Single Stage	Double Stage(Stage 1)	Double Stage(Stage 2)
	Vacuum Time	6 - 10 min	3 - 4 min	-
	Lamination Time	12 - 16 min	2 - 4 min	7 - 9 min
	Temperature	155 - 160°C	155 - 160°C	-

*Laminator recipe depends on type of laminator.

- Temperature and #Vacuum to be uniformly maintained across 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 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 and 30°C and humidity below 50-60% RH. Avoid exposures of product to air, direct sunlight, heat, dusts, and any other substances such as oil, water, solvents, chemicals. 6 months from manufacturing date following the recommended Storage Condition as described above.

PACKAGING INFORMATION

Unless specified, below is the standard packaging data.

Length/Roll	120 metres
No. of Rolls/Pallet	9 or 12
Total Linear Metres/Pallet	1080 or 1440

*Each Roll is sealed in a protective bag in 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. 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. **Pixxon Green Energy** gives no warranty and assumes no liability in connection with any use of this information and is **subject to the Pixxon Green Energy terms and conditions.**

Application : Product shall be used up within 24 hours once the original package is opened. Return all unused portions to original or comparable packing form and re-seal. For any rolls which were open, used, and re-packed, 1 week guarantee only when the rolls are re-packed and sealed with their original or equivalent packing form. **Recommended lamination condition** Lamination condition Temperature 155°C~160°C . The above recommended lamination condition is a typical application, customers shall adjust the parameter depending on the laminator, module structure, desired curing speed, etc