



KNACK ENERGY PVT. LTD.

Empowering the future...

Solar PV Encapsulant

KNACK UVT PUC

It is a ultra fast cure PID and snail trails resistance, UV transparent and weather stable EVA solar PV Encapsulant. It is used as top layer towards glass side. It allows UV rays to reach PV cells to generate higher power. It has wide process window, proven for single stage as well as short cycle multi stage lamination processes. This Encapsulant can be used for all Crystalline PV Modules.



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PROPERTIES

Particulars	Test Method	Unit	Values
Thickness	ASTM D 6988 - 21	mm	0.45 to 0.8 ± 5%
Width	Scale	mm	Up to 1400
Melting Point	ISO 11357 - 3	°C	70 ± 2
Surface type	Visual		Orange peel
Tensile Strength	ASTM D 882-18	MPa	15 ± 3
Elongation	ASTM D 882-18	%	≥600
Shore Hardness	ASTM D 2240-15	Shore - A	70 ± 5
Water Absorption	ISO 62 - 200805	%	≤0.1
Adhesion to Glass	ASTM D 903	N/cm	≥75
Adhesion to Back sheet	ASTM D 903	N/cm	≥75
Thermal Shrinkage	ISO1150 (160°C, 5 min. on Glass Plate)	%	≤2
Optical Transmittance	ASTM E 424	%	≥91
UV Cut Off Wavelength	ASTM E 424	nm	UV Transparent
Refractive Index	ISO 489		1.48
Dielectric Strength	ASTM D149	kV/mm	≥25
Volume Resistivity	IEC 62788-1-2	Ohm.cm	≥1x10 ¹⁵
Gel Content	IEC 62788-1-6	%	≥80
Lamination Parameters	Single Stage	Double Stage (Stage 1)	Double Stage (Stage 2)
Evacuation Time (Minute)#	3-5	3-5	
Lamination Time (Minute)	6-9	1-3	5-7
Temperature (°C)*	135 - 150	135 - 150	135 - 150

*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.

Packing:

- Length/Roll: 150 meter
- No. of Rolls/Pallet: 9/12
- Total Linear Meters/Pallet: 1350/1800
- Each roll is sealed in a protective bag in corrugated box
- Boxes are strapped on suitable pallets

Storage Condition and Shelf Life:

- Store in undamaged original packaging, temperature between 20°C- 30°C and humidity between 40-60% RH
- Recommended use within 9 months from date of manufacture
- Consume within 24 hrs. once opened from original packing

Note: The above technical information represents the typical range of properties and is believed to be correct as on date. We recommend the user to carry out intensive trials to test suitability of this product and module laminating conditions. Knack gives no warranty and assumes no liability in connection with any use of this information.