SOLAR PANEL (EVA) ENCAPSULANT SHEET

'EVO' encapsulant sheets are UV, weather stable and ultra-fast cure EVA PV Encapsulant that can be used for all kinds of PV Solar modules.

PROPERTY	UNITS	TEST METHOD	TYPICAL TEST VALUES	
			EVO FCP HLT	EVO FCP UVB
Film Grade	-	-	EVO FCP HLT	EVO FCP UVB
Emboss Type	-	Visual	Orange-Peel	Orange-Peel
Thickness	mm	ASTM D6988	0.5±5%	0.5±5%
Width	mm	Scale	specified +5/-0	specified +5/-0
Yield	Grams/sq. m	-	390 +/- 5%	390 +/-5%
Shore Hardness	Shore A	ASTM D2240	70 TO 80	70 TO 80
Tensile strength	MPa	ASTM D638	>10	>10
Tensile strain	%	ASTM D638	>500	>500
Adhesion to glass	N/cm	ASTM D903	>70	-
Adhesion to back sheet	N/cm	ASTM D903	-	>70
Water absorption	%	ISO 62-200805	<0.1	<0.1
Gel content	%	Soxhlet method	>75	>75
Thermal shrinkage (MD)	%	160C on glass plate for 5 min.	<3	<3
Thermal shrinkage (TD)	%	160C on glass plate for 5 min.	<2	<2
Optical transmittance	%	ASTM E424	>91	>91
Transmittance in Ultraviolet range 290 to 380 nm	%	ASTM E424	>80	<30
UV cut off wavelength	nm	ASTM E424	-	360
Comparative Tracking Index	volts	IEC 60112:2003	>600	>600
Di electric strength	kV/mm	ASTM D149	>25	>25
Volume resistivity	Ohm.cm	ASTM D257	>1x10^15	>1x10^15
Lamination Parameters				
Evacuation Time	Minutes	-	4 to 5	4 to 5
Lamination Time	Minutes	-	7 to 9	7 to 9
Temperature (Single Stage)	°C	-	140 to 145	140 to 145
Temperature (Double Stage)	°C	-	145 to 150	145 to 150
Storage and Packing Details				
Storage Conditions	Store in sealed packing at temperature < 30°C & humidity < 60%			
Shelf Life	Recommended to use within 9 months from the date of manufacture			
Packing	Length/roll: 150 meters Each roll is wrapped with a protective film in a corrugated box			