

SOLAR PANEL (POE) ENCAPSULANT SHEET

'POE' encapsulant sheets are UV, weather-resistant and fast cure encapsulant that can be used for all kinds of PV solar modules

PROPERTY	UNITS	TEST METHOD	TYPICAL TEST VALUES		
Film Grade	_	- ILST WILTHOU	POE FCP HLT	POE FCP UVB	
Emboss Type	_	Visual	Orange-Peel	Orange-Peel	
Thickness	mm	ASTM D6988	0.55±5%	0.55±5%	
Width	mm	Scale	As specified +5/-0		
Yield	Grams/sq. m	-	390 +/- 5%	390 +/-5%	
Tensile strength	MPa	ASTM D638	≥10	≥10	
Tensile strain	%	ASTM D638	>500	>500	
Adhesion to glass	N/cm	ASTM D903	>60		
Adhesion to back sheet	N/cm	ASTM D903	_	>60	
Water absorption	g/m ² ·24h	ASTM F1249	< 0.5	< 0.5	
Gel content	%	Soxhlet method	>75	>75	
		160 deg on glass			
Thermal shrinkage (MD)	%	plate for 5 minutes	< 3	< 3	
	0/	160 deg on glass			
Thermal shrinkage (TD) Optical transmittancε	%	plate for 5 minutes	<2	< 2	
(380 to 1100 nm)	%	ASTM E424	≥91	≥91	
Optical transmittance					
(290 to 380 nm)	%	ASTM E424	≥80	< 30	
UV cut off wavelength	nm	ASTM E424		360	
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				
	Length/roll: 150 meters				
Packing	Packing Each roll is wrapped with a protective film in a corrugated box				

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