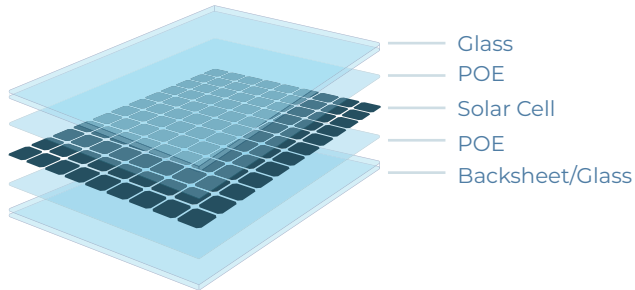


POE Encapsulant Sheet

T1500 Series



The T1500 series POE encapsulant is a fast cure type produced by Terasol Energy using state-of-the-art manufacturing and advanced technology. These encapsulants are known for their proven reliability, ensuring extended lifespan of solar photovoltaic systems in field environments. These encapsulants exhibit excellent technical properties, including resistance against PID (Potential Induced Degradation) and snail trail defects.

Test Parameter	Standard	Unit	Result	
			POE - T15F	POE - T15B
Thickness	ASTM D6988	Micron	400 - 800	
Width	Scale	mm	≤ 1350	
Shrinkage	150 °C @ 5 min.	%	MD: ≤3 % ; TD: ≤ 1 %	
Tensile Strength	ASTM D882	MPa	≥ 10	
Elongation at break	ASTM D882	%	≥ 600	
Peel Strength	ASTM D903	N/cm	≥ 70	
Shore Hardness	ASTM D2240	shore A	70 - 80	
Optical Transmittance	IEC 62788-1-4	%	≥ 91	
UV Cut-off Wave Length	IEC 62788-1-4	nm	-	360
Yellowness Index	ASTM E 313	-	< 1	
Gel Content	ASTM D2765	%	≥ 70	
Volume Resistivity	ASTM D 257	ohm.cm	≥ 1 x 10 ¹⁶	
Water Absorption	ISO 62	%	≤ 0.2	

Lamination Parameter	
Evacuation Time (Minutes)	5 to 6
Lamination Time (Minutes)	9 to 12
Temperature (°C)	140 to 150

Storage and Packing Details	
Storage Condition	Store at temperature 25 to 30 degree & Humidity 50 to 60%
Shelf Life	Recommended to use before 6 months from the date of manufacturing.