

ALISHAN EPE-NT ENCAPSULANT



Alishan EPE-NT is specially formulated encapsulant for sensitive top or bottom surfaces of cells like TOPCon and Topcore. It allows minimal moisture penetration and better acid management inside the modules which leads to extremely low power degradation after prolonged exposure to the environmental conditions.

Product	Alishan EPE-NT			
Linear meter	Up to 300 meters			
Width	Up to 1350 mm			
Thickness	Up to 0.80 mm			
Properties	Description	Standard	UOM	Alishan EPE-NT
Physical properties	Tensile strength	ASTM D 638	MPa	12 ± 3
	Elongation		%	≥ 600
	Adhesion with Glass	ASTM D 903	N/cm	≥ 75
	Adhesion with Backsheet		N/cm	≥ 75
Thermal Property	Thermal Shrinkage	160 Deg C / 5 min	%	MD ≤ 3
				TD ≤ 1
Water Ingress	WVTR	ASTM F 1249	g/m².day	< 5
Electrical Property	Volume resistivity	ASTM D257-14	Ohm. cm	>1×10 ¹⁵
Gel content		ASTM D 2765	%	> 75
Optical Properties	Transmittance	ASTM E 424	%	≥ 91
	Yellowness Index		-	< 2
Lamination Parameters			UOM	Values
	Vacuum / Evacuation Time		Minutes	5 – 8
	Lamination / Pressing Time		Minutes	10 – 14
	Lamination Temperature		°C	120 – 150