



Vishakha FC - II is an Ethylene Vinyl Acetate based encapsulant for the manufacturing of Solar PV modules. It is one of the Fast Curable variant of EVA encapsulants manufactured in Vishakha Renewables with lamination time of less than 15 minutes.

Lamination Properties	Parameters	Unit	Values
	Vacuum / Evacuation Time	Minutes	4 - 6
	Lamination / Pressing Time	Minutes	8 - 12
	Lamination Temperature	°C	142 - 152
	Gel Content - as per ASTM D 2765 – Soxhlet Method	%	≥80

The convincing extrusion technology for the production of solar encapsulant film for PV-module results in low thermal shrinkage & high optical transmission, there by higher output of the modules.

With the state of art extruder, the one side embossed encapsulant is supplied with the below properties

Properties	Physical	Parameters	Test Standard	Unit	Values
		Thickness	ASTM D 6988	µm	450 ± 5 %
		Width	Scale	mm	≤ 1200 mm
	Optical	Optical Transmission	ASTM E 424	%	≥92
		UV Cut off	ASTM E 424	nm	360
		Refractive Index	ASTM D 542	-	1.48
	Electrical	Volume Resistivity	ASTM D 257	Ohm.cm	>1x10 ¹⁴
		Dielectric Strength	ASTM D 149	kV/mm	36
		Breakdown Voltage	ASTM D 149	kV/mm	47
	Mechanical	Tensile Strength	ASTM D 638	MPa	≥18
		Elongation	ASTM D 638	%	≥800
		Shore Hardness	ADTM D 2240	Shore A	80 ± 2
	Adhesion	Peel strength with Glass	ASTM D 903	N/cm	≥75
		Peel strength with Back sheet	ASTM D 903	N/cm	≥75
		Water Absorption	ISO 62	%	0.1
	Thermal	Thermal shrinkage	160 °C, 5 minutes on glass plate		MD ≤ 2 %
		Thermal Conductivity	ISO 22007	W/m.K	0.06
		Specific Heat	ISO 22007	J/g.K	0.58

UL recognised under File No : QIHE2 - E485922

TUV/UL tested – DH, EVA Thermal & Electrical properties



Storage Condition : To be stored in sealed packing at temperature < 30 °C & Humidity < 60 %

Shelf life : It is recommended to use within 6 months from the date of manufacture

Supply : Rolls of 150 linear meter & Pallets suitable for export