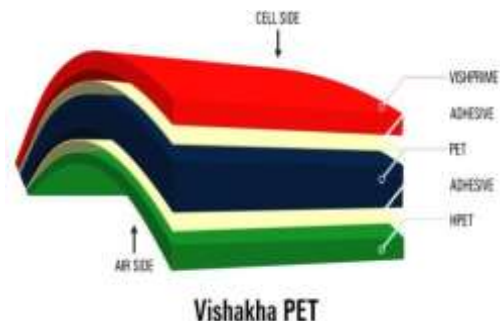


Vishakha 1500 V PET is a polyethylene terephthalate based weather stable back sheet having good mechanical strength. It can be used for all crystalline PV module manufacturing. It offers very high barrier to water vapor and excellent adhesion with encapsulants.

Properties	UOM	Test Method	Vishakha PET	
Thickness	µm	Caliper	370 ± 5 %	
Width	mm	Scale	Up to 1250	
GSM	g/m ²	Weighing scale	480±20	
Tensile Strength	MPa	ASTM D 882	MD	>100
			TD	>100
Elongation	%	ASTM D 882	MD	≥100
			TD	≥100
Thermal Shrinkage @ 150 °C / 30 min	%	ASTM D 1204	MD	≤1.5
			TD	≤0.5
Interlayer Adhesion	N/cm	ASTM D 903	HPET-PET	≥4
			PET- Primer	≥4
Adhesion with EVA	N/cm	ASTM D 903	≥75	
Breakdown Voltage	kV/mm	ASTM D 3755	>150	
Dielectric Strength	kV/mm	ASTM D 149	>20	
Comparative Tracking Index	V	IEC 60112	> 600	
Radiant Panel Test	-	ASTM E 162	55	
RTI - Electrical	°C	UL 1703	140	
RTI – Mechanical	°C	UL 1703	125	
Distance through insulation	µm	IEC 60112	>300	
Reflectance	%	-	>75	
WVTR	g/m ² day	ASTM F 1249	<1.6	

Construction of Vishakha 1500 V PET back sheet

Layer No	Particulars	Thickness (µ)
1	Air side layer – HPET	50
2	Adhesive	10
3	PET	250
4	Adhesive	10
5	Cell side – VishPrime	50
Total Thickness of Back sheet		370



UL recognized under File No: QIHE2.E487880



Storage Condition : To be stored in sealed packing at temperature < 30 °C & Humidity < 60 %
 Shelf life : It is recommended to use within 12 months from the date of manufacture