

KNACK ENERGY Pvt. Ltd.

Empowering the future...

Solar Backsheet

KNACK BS PVDF T15

It is a PVDF based weather stable transparent backsheet suitable for 1500VDC bifacial solar module. It is designed uniquely with air side PVDF, center PET and cell side high bonding Knack specialized primer layer. It has excellent thermal dimension stability which provides wide processing window to users. It can be used for all crystalline PV module manufacturing. It offers high barrier to water vapour and excellent adhesion with encapsulants.



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Factory: Plot No. 31/A, Kamla Amrut Industrial Estate, Survey No. 252, Near Hitachi Johnson, Budasan, Ta:Kadi, Dist:Mehsana - 382715. Gujarat, India.

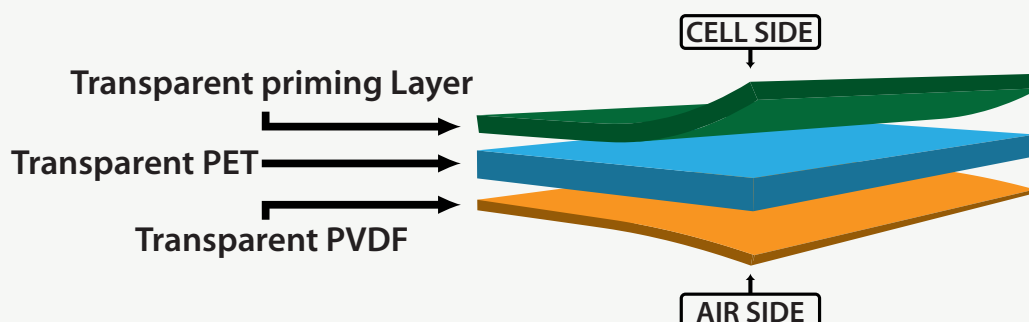


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PROPERTIES

Properties	UOM	Test Method	KNACK BS PVDF T15	
Thickness	μm	Micrometer	360 ± 5%	
Width	mm	Scale	Up to 1400	
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	PVDF- PET	≥ 4
			PET- Primer	≥ 4
Adhesion With EVA	N/cm	ASTM D 903	≥ 75	
Dielectric Strength	kV/mm	ASTM D 149	≥ 20	
CTI	V	IEC 60112	≥ 600	
Distance through insulation	μm	IEC 60112	≥ 300	
Transmittance	%	-	≥ 90	
WVTR	g/m ² day	ASTM F 1249	< 2	



Storage Condition: To be stored in sealed packing at temperature < 35 °C & Humidity < 60 %
Shelf life: It is recommended to use within 12 months from the date of manufacture

Note: The above technical information represents the typical range of properties and is believed to be correct as on date. We recommend the user to carry out intensive trials to test suitability of this product and module laminating conditions. Knack gives no warranty and assumes no liability in connection with any use of this information.