



Sustain EVA



Low Shrinkage



Higher Volume Resistivity



Most consistent GSM



High peel strength



Dual-side embossing



PID-free and anti-snail trails

Sustain EVA encapsulant provides comprehensive protection and embedding of the solar cell to ensure a long life for solar modules. Sustain EVA is a UV and weather - stable Ethyl Vinyl Acetate (EVA) PV Encapsulant which is proven for single-stage as well as Short-cycle multi-stage lamination processes. This Encapsulant can be used for all types of crystalline and thin film modules.

Outstanding
light
transmittance

28%
VA
Content

Excellent
durability

Outstanding
material
compatibility

Easy to
use

All
Laminator
friendly



SOLAR PANEL (EVA) ENCAPSULANT SHEET

Sustain EVA encapsulant sheets are UV, weather stable and ultra-fast cure EVA PV Encapsulant that can be used for all kinds of PV Solar modules.

PROPERTIES	UNIT	TEST METHOD	TYPICAL TEST VALUES			
Film grade	-	-	EVO FCP HLT	EVO FCP UVB	EVO FCP HLT	EVO FCP UVB
Cell size compatibility	-	-	M3/M6	M3/M6	M10/M12	M10/M12
Emboss type	-	Visual	Orange-Peel	Orange-Peel	Orange-Peel	Orange-Peel
Thickness	mm	ASTM D6988	0.5 ±5%	0.5 ±5%	0.65 ±5%	0.60 ±5%
Width	mm	Scale	Specified +5/-0mm	Specified +5/-0mm	Specified +5/-0mm	Specified +5/-0mm
Yield	Grams /sq. m	-	390 +/- 5g	390 +/-5g	520 +/-5g	480 +/- 5g
Shore hardness	Shore A	ASTM D2240	70 TO 80	70 TO 80	70 TO 80	70 TO 80
Tensile strength	MPa	ASTM D638	>10	>10	>10	>10
Tensile strain	%	ASTM D638	>500	>500	>500	>500
Adhesion to glass	N/cm	ASTM D903	>70	-	>70	-
Adhesion to back sheet	N/cm	ASTM D903	-	>70	-	>70
Water absorption	%	ISO 62-200805	<0.1	<0.1	<0.1	<0.1
Gel content	%	Soxhlet method	>75	>75	>75	>75
Thermal shrinkage (md)	%	160 deg on glass plate for 5 minutes	<3	<3	<2	<2
Thermal shrinkage (td)	%	160 deg on glass plate for 5 minutes	<2	<2	<1	<1
Optical transmittance	-	ASTM E424	>91	>91	>91	>91
Transmittance in ultraviolet Range 290 to 380 nm	%	ASTM E424	>80	<30	>80	<30
Uv cut off wavelength	nm	ASTM E424	-	360	-	360
Comparative tracking index	volts	IEC 60112:2003	>600	>600	>600	>600
Di electric strength	kV/mm	ASTM D149	>25	>25	>28	>28
Volume resistivity	Ohm.cm	ASTM D257	>1x10 ¹⁵	>1x10 ¹⁵	>1x10 ¹⁵	>1x10 ¹⁵

SUGGESTED LAMINATION PARAMETERS

Evacuation Time	Minutes	4 to 5	4 to 5	4 to 5	4 to 5
Lamination Time	Minutes	7 to 9	7 to 9	7 to 9	7 to 9
Temperature (Single Stage)	°C	138 to 142	138 to 142	138 to 142	138 to 142
Temperature (Double Stage)	°C	140 to 145	140 to 145	140 to 145	140 to 145

STORAGE AND PACKING DETAILS

Storage Conditions	Store in sealed packing at temperature < 30°C & humidity < 60%
Shelf Life	Recommended to use within 9 months from the date of manufacture
Packing	Length/roll : As per requirement Each roll is wrapped with a protective film in a corrugated box

Note: The technical information is based on random sampling and data information herein refers to typical values. Since conditions of product use are beyond our control, we make no warranties and assume no liability in connection with any use of this information. Navitas Alpha Renewables Pvt. Ltd. disclaim any liability for loss or damage incurred in connection with the use of this product.



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