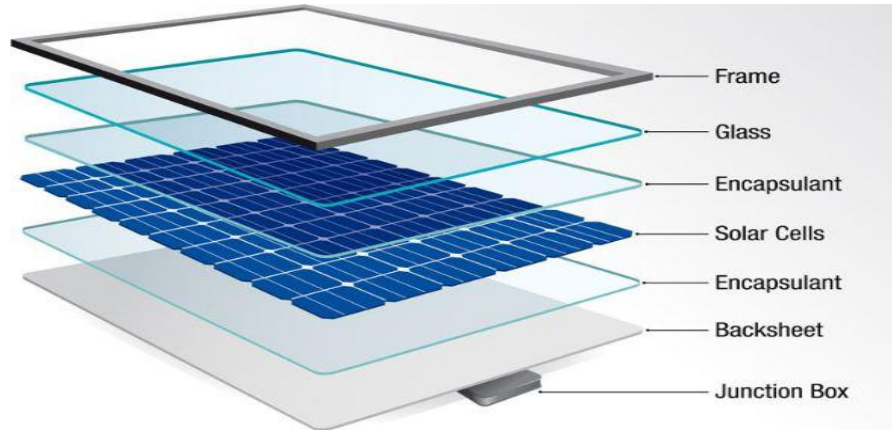




# SOLAR-SPECIALITY FILMS

P R I V A T E L I M I T E D



## Solar PV Encapsulant

# SSF01-UCF

It is a ultra-fast cure, UV transparent and weather stable EVA solar PV Encapsulant. It is used as top layer towards glass side. It allows UV rays to reach PV cells to generate higher power. It has wide process window, proven for single stage as well as short cycle multi stage lamination processes. This Encapsulant can be used for all Crystalline PV Modules.



UL Certified. Refer file No. E535681

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Factory Address: Aaraji 94, NH 79, Near RTO Check post Nayagaon, Jawad, Neemuch, Madhya Pradesh Pin 458468

# PROPERTIES

Parameters	Values	Unit	Test Method
Thickness	450 to 800	μ	ASTM D 6988 - 08
Width	Up to 1300	mm	Scale
Melting Point	70±2	°C	ISO 11357 - 3
Surface type	-	-	Inside: Matt; Outside: Embossed
Tensile Strength	15 ± 3	Mpa	ASTM D 638
Elongation	≥600	%	ASTM D 638
Shore Hardness	70±5	Shore - A	ASTM D 2240
Water Absorption	≤0.1	%	ISO 62 - 200805
Adhesion to Glass	≥70	N/cm	ASTM D 903
Adhesion to Back sheet	≥70	N/cm	ASTM D 903
Thermal Shrinkage	≤2	%	160 °C, 5 min
Optical Transmittance	≥91	%	ASTM E 424
UV Cut Off Wavelength	UV transparent	nm	ASTM E 424
Gel Content	≥75	%	Soxhlet Method
Volume Resistivity	≥1 x10 <sup>15</sup>	Ω.cm	ASTM D 257
<b>Lamination Parameters</b>	<b>Single Stage</b>	<b>Double Stage (Stage 1)</b>	<b>Double Stage (Stage 2)</b>
Evacuation Time (Minute)	3-5	3-5	
Lamination Time (Minute)	6-9	1-3	5-7
Temperature (°C) *	140-150	140-150	140-150

\*Temperature and vacuum to be uniformly maintained across the laminator.

## Packaging:

- Length of roll-150/300 Mtr.
- Each roll is sealed in a protective bag in a corrugated box.
- Boxes are strapped on suitable pallets.

## Storage Condition and Shelf Life:

- Store in undamaged original packaging, Temperature between 20°C to 30°C and 50 to 60% RH.
- Recommended to use within 9 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. This data should however not be used to establish specification limits or used as basis for design. **Solar-Speciality Film Pvt. Ltd.** gives no warranty and assumes no liability in connection with any use of this information and is subject to the **Solar-Speciality Film Pvt. Ltd.** general terms and conditions.

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