

**ENCAP S0398F****PRODUCT DATASHEET****DESCRIPTION**

ENCAP S0398F is an ethylene vinyl acetate based solar PV encapsulant film featuring low shrinkage and high transmittance.

APPLICATIONS

Encapsulation of photovoltaic crystalline silicone and thin film.

PROPERTIES	VALUES	UNITS	TEST METHOD
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MECHANICAL PROPERTIES

Thickness	500 ± 20	microns	By Digital Gauge
Film Width	As Per Require	mm	Scale
Tensile Strength	≥18	Mpa	ASTM D 412
Tensile Strain (Elongation)	≥600	%	ASTM D 412
Shore Hardness	80 ± 2	Shore - A	ASTM D 2240

OPTICAL PROPERTIES

UV Cut-off	360	nm	ASTM E 424
Transmittance	≥91	%	ASTM D 1003
Gel Content	≥75	%	Soxhlet Method

PHYSICAL PROPERTIES

Density	0.95	g/cm ³	ENRICH METHOD
MVTR	≤1.5	g/m ² .h	ASTM E 96
Adhesion to glass	≥75	N/cm	ASTM D 1876
Adhesion to back sheet	≥45	N/cm	ASTM D 1876
Shrinkage	MD ≤ 3 TD ≤ 1.5	%	Heat oven test, 160 C, 5 min. (on Glass Plate)
Surface Type	Inside: Matt, Outside: Embossed	Unit	Visual
Melting Point	70±2	°C	DSC @ 10 C/min
Water Absorption	≤0.1	%	ASTM D570

ELECTRIC PROPERTIES

Volume Resistivity	≥1X10 ¹⁴	Ohm-cm	ASTM D257
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Test Specimen	≥50mm X 50 mm X≥2,5MM	Ohm-mm	IEC 60112:2020
Solution	385		ASTM Test Solution
Drop Volume	20	mm ³	ASTM Test Solution

LAMINATION RECIPE

Lamination Parameters	Single Stage	Double Stage (Stage 1)	Double Stage (Stage 2)
Evacuation Time (Minute)	4 - 6	3 - 4	
Lamination Time (Minute)	8 - 11	2 - 4	7 - 9
Temperature (C)	140 - 145	140 - 145	140 - 145

For Product Safety, Handling & Storage Conditions refer to MSDS

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