

**ENCAP S0398FU****PRODUCT DATASHEET****DESCRIPTION**

ENCAP S0398FU is polyolefin based film featuring low shrinkage and high transmittance for PV encapsulant film.

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 requirement	mm	Scale
Tensile Strength	≥12	Mpa	ASTM D 412
Tensile Strain (Elongation)	≥700	%	ASTM D 412
Shore Hardness	80 ± 2	Shore - A	ASTM D 2240

OPTICAL PROPERTIES

UV Cut-off	355	nm	ASTM E 424
Transmittance	>90	%	ASTM D 1003

PHYSICAL PROPERTIES

Melting Point	76 ± 2	C°	DSC @ 10 C/MIN
MVTR	≤1.0	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
Water Absorption	≤0.1	%	ASTM D570

ELECTRIC PROPERTIES

Volume Resistivity	≥1X10 ¹⁵	Ohm-cm	ASTM D257
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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)	147 - 152	147 - 152	147 - 152

For Product Safety, Handling & Storage Conditions refer to MSDS.