evasa
eva specialist

SOLARCAP®

SOLARCAP® FC100014E/A-STT

Solarcap® FC100014E/A-STT is a formulated EVA (ethylene vinyl acetate) encapsulant, specially designed to reduce de UV cut-off increasing the UV light transmission, which can be used for crystalline silicone modules. Solarcap® Solar Total Tranmission are totally protected against yellowing. The cycle time may change according to the laminator, module design, temperature and targeted crosslinking degree. Typical cycles work at temperatures from 145 to 150ºC and times around 15 minutes, with a gel content >85%.

Characteristics			
Width range	≤ 2,100mm		
Thickness range	300-1,200 µm		
Standard thickness	460 µm		
Packaging	from 50 to 600 m		
Density	0.96 g/cm³		
Color	clear		
Optical and Thermal properties			
Light transmission	ASTM E-424	%	91
UV cut off	ASTM E-424	nm	280
Refractive index	ASTM D-542		1.482
Glass transition temperature	ASTM D-3418	ºC	-25
Softening Point	ASTM D-3418	ºC	63
Electric properties			
Volumetric resistivity	ASTM D-257	Ω/cm	$> 10^{14}$
Dielectric strength	ASTM D-149	kV/mm	>20
Mechanical and Physical properties			
Tensile strength cure	ASTM D-638	MPa	13
Elongation cure	ASTM D-638	%	>500
Young's modulus	ASTM D-638	MPa	7.9
Shrinkage (MD/TD)	150ºC/30 min	%	<1
Adhesion (0.5 mm sheet) on glass	ASTM D-903	N/cm	85
Hardness	ASTM D-2240	A/D	64/20
Crosslinking degree	ASTM D-2765	%	>85
Water Absorption	ASTM D-570	%	< 0.1
Packaging and Storage			
Packaging	Standard (black PE bag)*		
Max. Temperature of storage	30ºC		
Max. Humidity	≤60%		
Shelf life (from the date of manufacture)	6 months		

**Premium packaging under request (shelf life 9 months).*

These are typical laboratory values that may change depending on the cure conditions, as well as the test conditions and method.

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