

SOLARCAP® FC100011E/A

Solarcap® FC100011E/A is a formulated EVA (ethylene vinyl acetate) encapsulant, which can be used for crystalline silicon modules. The cycle time may change according to the laminator, module design, temperature and targeted crosslinking degree. Typical cycles work at temperatures from 145 to 150°C 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/cm ³			
Color	clear			
Optical and Thermal properties				
Light transmission	ASTM E-424	%	91	
UV cut off	ASTM E-424	nm	360	
Refractive index	ASTM D-542		1.482	
Glass transition temperature	ASTM D-3418	°C	-25	
Softening Point	ASTM D-3418	°C	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	15
Elongation	cure	ASTM D-638	%	>600
Young's modulus		ASTM D-638	MPa	7.9
Shrinkage (MD/TD)		150°C/30 min	%	<1
Adhesion (0.5 mm sheet) on glass		ASTM D-903	N/cm	85
Hardness		ASTM D-2240	A/D	68/21
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	30°C			
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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