



PID Solutions

HiSolar PV Module Encapsulant
EVA Film

HiSolar PV EVA encapsulant is developed by HIUV scientists and has good performance not only on general properties but also on PID resistance.

HiSolar PV EVA Encapsulant has good performance in PID test

Test condition	S201M	S201MR	Competitor A	Competitor B
65°C 85%RH -1000V test				
96 hours	<1%	<1%	-	-
85°C 85%RH -1000V test				
96 hours	<15%	<5%	-	35%

RMK: Cell in test does not have PID resistance treatment. Test result will change when cell changes.

HiSolar PV EVA Encapsulant has high electric resistance

Grade	Unit	S201M	S201MR
Elec. Resistance	Ω.cm	About 7×10^{14}	About 2×10^{15}

RMK: test result will change when circumstance humidity changes.

HiSolar PV EVA Encapsulant Specification

Item	Unit	Test Method	S201M	S201MR
Length	Meter	/	100 or customer specified	100 or customer specified
Width	Millimeter	/	810-1050mm or customer specified	810-1050mm or customer specified
Thickness	Millimeter	/	About 0.63	About 0.63
Density	g/cm ³	ASTM D792	0.95	0.95
Melting Point	°C	/	About 70	About 70
Light Transmittance	%	ASTM D1746-03	92	92
Refraction Index	/	ASTM D1218	1.48	1.48
Degree of Crosslink	%	Back flow by xylene	>80	>80
Peeling Strength EVA/Glass	N/cm	ASTM D903	>50	>50
Peeling Strength EVA/TPE	N/cm	ASTM D1876	>50	>50
Heat Humidity Test	YI	IEC 61345 1000hr 85°C 85%RH	<2	<2
UV Test	YI	IEC 61345 1000hr	<2	<2
Shrinkage (120°C 3min)	%	Heat	<4	<4
Remark	/	/	PID resistance	Super PID resistance

Surface Treatment

The surface of HiSolar EVA is treated as following pictures.



Laminating Technique

Recommend curing condition of HiSolar is 140-150°C, vacuuming 4-5 minutes and laminating 11-12 minutes. Customer can adjust curing condition considering his own equipments.

Package

Width of HiSolar is 810/1000 mm and length is 100 or 150 meter or customer specifies. Outside HiSolar is PE sealing bag and paper box. Paper core diameter is 3 inch. One carton box has 6 rolls or one tray has 20 rolls HiSolar.

Storage

HiSolar has to be stored in original unopened containers in a cool and dry place. Direct sun light should be avoided. Once original package is unopened, film should be consumed within a short time.

Code Rule

HiSolar – S 201M

Commercial name S-Crystal Silicon 2-Fast Cure 01-Serial Number M/R-Special purpose

Manufactured by:

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