TOPRAY Solar

EVA Film

Encapsulation materialfor solar panel

- Different type of EVA film avaible: high transparent, high UV cut off,white high reflection….
- Excellent weather resistance against high temperature, high humidity, ultraviolet….
- Good adhesion in between glass and differ ent type of backfilm
- Low shrinkage to ensure component stability during lamination

Packing

▲ The inner diameter of the paper tube is 76mm, each roll is 150m / 200m / 400m, each roll is sealed with PE film, and 9 rolls / 6 rolls / 2 rolls are placed in a carton.

Store

Must be stored in a dry and cool constant temperature room

Temperature 0 ~ 30 ℃, humidity ≤60%;

The storage period of this product is 6 months from the production date

application

1. Make sure to store and use EVA film in a constant temperature and humidity room.
2. In order to avoid abnormal lamination of components due to static electricity, it is recommended to remove static electricity throughout the module.
3. The EVA film cut into sheets should be kept sealed to avoid pollution and moisture, and related facilities should be set up to avoid mosquito pollution.
4. It is recommended not to use each roll near the paper tube and the outermost circle.

Note: read the safety and installation instructions or contact technical services for further information before using the product.

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Specifications are included in the data sheet and are subject to change without notice.

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Properties		Unit	criterion	High Transparency	Tesing Method
Tensile strength		MPa	>15	16	GB/T 13022-91
Elongation at break		%	>550	750	
Young's Modulus (cured)		MPa	>4.7	6.5	
Light transparency	(290-380 nm)	%	>80	85	GB/T2410-2008
	(380-1100 nm)		≥90	92	
UV-Cutoff Wavelength		nm	—	—	UV-vis
Volume Resistance		Ω·cm	>1.0×1015	1.0×1016	GB/T 1410-2006
UV Light resistance (60kw.h/m²)		△YI	<5.0	2.5	ASTM E 313
Heat/humidity resistance			<5.0	2.5	GB/T 2423.3-2006
Gel content		Gel%	≥75	85	GB/T 1033.1-2008
Strength of peeling from glass		N/cm	>50	>92	GB/T 2790
Strength of peeling from backfilm		N/cm	>50	>85	
Shrinkage Rate(120 degree C, 3min)		MD%	<3.0	2	ASTM 1204
		TD%	<1.5	0.5	
Thickness		mm	Base on customer demand		GB/T6672
Width		mm	Base on customer demand		GB/T6673

Properties		Unit	criterion	High UV cutoff	Tesing Method
Tensile strength		MPa	>15	16	GB/T 13022-91
Elongation at break		%	>550	750	
Young's Modulus (cured)		MPa	>4.7	6.5	
Light transparency	(290-380 nm)	%	>30	24	GB/T2410-2008
	(380-1100 nm)		≥90	91	
UV-Cutoff Wavelength		nm	360	360	UV-vis
Volume Resistance		Ω·cm	>1.0×1015	1.0×1016	GB/T 1410-2006
UV Light resistance (60kw.h/m²)		△YI	<5.0	2.5	ASTM E 313
Heat/humidity resistance			<5.0	2.5	GB/T 2423.3-2006
Gel content		Gel%	≥75	86	GB/T 1033.1-2008
Strength of peeling from glass		N/cm	>50	95	GB/T 2790
Strength of peeling from backfilm		N/cm	>50	88	
Shrinkage Rate(120 degree C, 3min)		MD%	<3.0	2	ASTM 1204
		TD%	<1.5	0.5	
Thickness		mm	Base on customer demand		GB/T6672
Width		mm	Base on customer demand		GB/T6673

Properties	Unit	criterion	White high reflection	Tesing Method
Tensile strength	MPa	>16	18	GB/T1040.3-2006
Elongation at break	%	>550	750	
Light transparency	%	>90	91	GB/T 29848-2013
UV-Cutoff Wavelength	nm	—	360	UV-vis
Volume Resistance	Ω·cm	>1.0×1014	1.0×1015	GB/T 1410-2006
UV Light resistance (60kw.h/m²)	△YI	<5.0	2.59	GB/T 29848-2013
Heat/humidity resistance		<5.0	2.78	GB/T 29848-2013
Gel content	Gel%	≥75	83.26	GB/T 29848-2013
Strength of peeling from glass	N/cm	>50	115.69	GB/T 29848-2013
Strength of peeling from backfilm	N/cm	>50	91	
Shrinkage Rate(120 degree C, 3min)	MD%	<3.0	2	GB/T 29848-2013
	TD%	<1.5	0	
Thickness	mm	Base on customer demand		GB/T6672
Width	mm	Base on customer demand		GB/T6673