

HIGH QUALITY EVA FILM FOR SOLAR PANELS

Technical Datasheet

Item		Test method	Unit	Fast cure type	
				FRONT (with glass)	BACK
Density		ISO1183	g/cm ³	0.95	0.95
VA content		TGA	%	26-33	26-33
Softening point		DSC	°C	55	55
Surface hardness		GB/T531-1999	Shore A	65	65
Tensile strength(after crosslinking)		ISO527-3	MPa	20	20
Elongation (after crosslinking)			%	600	600
Strength of Extension			MPa	6	6
UV cutoff wavelength		UV-vis	Nm	--	360
Optical transmittance		GB2410-80	%	91.5	91
Refractive index		ISO489	--	1.480	1.482
(0.45MM; before cross-linking, 120°C, 3min) Thermal shrinkage		Q/ZX001-201 2	MD%	≤3.0	≤3.0
			TD%	≤1.0	≤1.0
(140°C, 17min) Cross-linking rate		Q/ZX001-201 2	%	≥75.0	
Peeling strength	With Glass	Q/ZX001-201 2	N/cm	>60	
	With TPT		N/cm	>40	
(90°C,90%RH, 1500hrs) Damp Heat resistance	Yellowness index	Q/ZX001-201 2	ΔYI	<3	
	Peeling strength with glass		N/cm	>40	
(xenon lamp, 1500hrs) UV Exposure resistance	Yellowness index	Q/ZX001-201 2	ΔYI	<3	
	Peeling strength with glass		N/cm	>40	
Volume resistivity		GB/T 1410	Ω · cm	≥1*10 ¹⁵	
Dielectric strength		GB/T1408.1	Kv/mm	>28	
(60°C,85%RH,-1000V,96H) Power changes after PID test		IEC61730-2:2 004 IEC61215:200 5	%	<5%	

Product packaging

1. Each roll is packed with PE film and vacuum packing process, after that put one roll in one carbon box. (Under 500mm width will be packed with 2-3 rolls in one box).
2. The inner package of the products is polyethylene bags, and the external packages are cartons and pallets. Every roll of EVA is put in a carton, and each pallet can be put on 16 to 24 rolls.
3. Production storage: Being stored in a dry and shade place with temperature $0^{\circ}\text{C} \sim 30^{\circ}\text{C}$, and humidity $\leq 60\%$, sunlight direct radiation should be avoided. The product must be not placed nearby heating equipment and the place with dust.
4. Product usage: Before using, check the package intact and untouched. The product should be quickly used once you open it, the other unused part re-sealed by original packaging or similar packaging. The product is guaranteed for 6 months from the production date in the unopened state, you are suggested to use up within 3 months.