JOLYWOOD

太阳电池背膜

SOLAR MODULE BACKSHEET

型号：FFC-JW3010(Plus)

全面满足 UL Type1、IEC、Class A 防火等级要求

Fully meet fire rsistance rating requirements of UL Type 1 and IEC Class A

产品特点 (FFC-JW3010(Plus)]

1. 双面氟、膜胶一体化结构：FFC//PET//FFC;
2. 采用等离子体化学改性技术和氟硅烷化表面接枝技术；
3. 更高性价比；
4. 背部局部放电电压大于 1500V；
5. 规格可按客户要求定制，最大宽幅 1300mm。

FEATURES OF PRODUCTS[FFC-JW3010(Plus)]

1. Membrane - adhesive integrated structure (FFC//PET//FFC) with double-side fluorine coated.
2. Applying plasma chemical modification and fluoro-Silanization surface grafting techniques.
3. Higher cost performance.
4. Partial discharger voltage of the backsheet is higher than 1500V.
5. Made-to-order backsheet with width up to 1300mm.

注：FFC 为中来公司特种四氟型聚合物。专利产品，仿冒必究！

Remarks: FFC is a special tetra-fluoro polymer owned by Jolywood. Patented Products, Counterfeiting Not Allowed.

FFC-JW3010(Plus) 性能指标（FFC//PET//FFC） TECHNICAL DATA OF FFC-JW3010(Plus)

项目 Item		数值 Value	单位 UInit	引用标准 Quoted Standard
背膜厚度 Film Thickness	标称厚度 Nominal thickness	300	μm	GB/T13542.2-2009
	标称公差 Nominal tolerance	±5%	-	-
抗张强度 Tensile strength (MD)		175	N/m m^2	GB/T13542.2-2009
抗张强度 Tensile strength(TD)		182	N/m m^2	GB/T13542.2-2009
断裂伸长率 Elongation at break (MD)		169	%	GB/T13542.2-2009
断裂伸长率 Elongation at break (TD)		138	%	GB/T13542.2-2009
收缩率 Shrinkage 150°C30min(MD)		0.33	%	GB/T13542.2-2009
收缩率 Shrinkage 150°C30min(TD)		0.04	%	GB/T13542.2-2009
涂层附着力 (FFC//PET)Coating adhesion		0	等级 grade	GB/T9286-1998
与 EVA 粘接强度（初始） Peeling strength with EVA(initial)		86	N/10mm	GB/T2790-1995
击穿电压 Breakdown voltage		21.9	KV	GB/T13542.2-2009
局部放电电压 Partial Discharge		>1500	VDC	GB/T60664-1-2007
水蒸汽透过率 Moisture Vapor Transmission Rates		1.82	g/ m^2·d	GB/T26253-2010
耐湿热老化试验 Damp-heat testing (85°C85%RH,2000h)(85°C85%RH,2000h)		不分层、不起泡 △≦b2 No delamination , no bubble	-	IEC 61215-2005
人工辐射暴露 Radiation exposure(QUVB,4000h)		4 级 Grade4	-	GB/T16422.3-1997
紫外预处理 UV pretreatment(15kwh)		不分层、不起泡、不褶皱 △≦b2 No delamination, bubble or fold	-	IEC 61215-2005
Super UV(65°C65%RH,60kwh)		不分层、不起泡 △≦b2 No delamination, no bubble	-	GB/T16422.2-2014
沸水处理（沸水煮 24h） Boiling water treatment (boiled for 24h)	外观检查 Visually inspect	不分层、不起泡、不褶皱、无脱落、无粉化 No delamination, bubble or fold. No peeling or no powdering	-	GB/T17748-2008
	涂层附着力 Coating adhesion	0	等级 grade	GB/T9286-1998
冷热循环处理 （-40°C~85°C,6h/ 周期， 200 周期）TC200	外观检查 Visually inspect	不分层、不起泡、不褶皱 No delamination, bubble or fold	-	IEC 61215-2005
	击穿电压 Breakdown voltage	≧ 16	KV	GB/T13542.2-2009
冷热循环 50 后湿冻处理 （40°C~85°C,85%24h/ 周期， 10 周期）HF10after TC50	外观检查 Visually inspect	不分层、不起泡、不褶皱 No delamination, bubble or fold	-	IEC 61215-2005
	击穿电压 Breakdown voltage	≧ 16	KV	GB/T13542.2-2009
耐酸 / 碱性 Acid/Alkali resistance		不分层、不起泡 No delamination, No bubble	-	GB/T17748-2008
耐盐雾性 Salt spray resistance		不分层、不起泡 No delamination, No bubble	-	GB/T2423.17-2009

注：以上数值为典型值 **Remark:** The above data are typical values.