



太阳能电池背膜

Solar Module Backsheet

型号：KFB-30

全面满足 UL Type 1、IEC Class A 防火等级要求

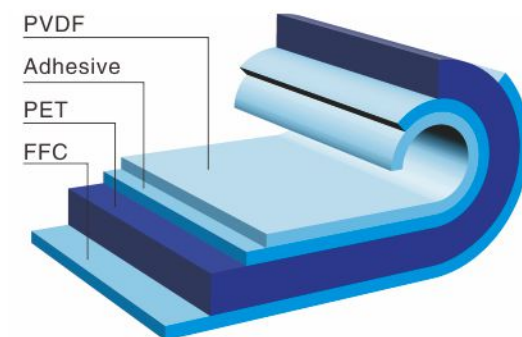
Fully meet fire resistance rating requirements of UL Type 1 and IEC Class A

产品特点 (KFB-30)

1. 双面氟碳结构，集成PVDF氟膜，大金ZEFFLE、中来FFC氟碳技术，品牌驰名、性能可靠；
2. FFC氟碳内涂层技术更易于组件返修，不脱层；
3. FFC氟碳内涂层厚度15 μ m，耐紫外性能优异，组件不黄变；
4. 规格可按客户要求定制，最大宽幅1300mm。

FEATURES OF PRODUCTS (KFB-30)

1. Double-sided fluorine structure (PVDF//PET//FFC), integrating PVDF film, ZEFFLE(Daikin) and FFC patented technology (Jolywood);
2. FFC fluorocarbon inner coating technology, easier for module rework, no delamination;
3. FFC fluorocarbon inner coating with thickness 15 μ m, excellent in UV resistance, non-yellowing;
4. Made-to-order backsheet with width under 1300mm is available.



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!

KFB-30 性能指标 (PVDF//PET//FFC) TECHNICAL DATA OF KFB-30

项目 Item		单位 Unit	引用标准 Quoted Standard	数值 Value
背膜厚度 Film Thickness	标称厚度 Nominal thickness	μ m	GB/T 13542.2-2009	300
	标称公差 Nominal tolerance	-	-	\pm 5%
抗张强度 Tensile strength (MD)		N/mm ²	GB/T 13542.2-2009	162
抗张强度 Tensile strength (TD)		N/mm ²	GB/T 13542.2-2009	167
断裂伸长率 Elongation at break (MD)		%	GB/T 13542.2-2009	163
断裂伸长率 Elongation at break (TD)		%	GB/T 13542.2-2009	142
收缩率 Shrinkage 150 $^{\circ}$ C \times 30min (MD)		%	GB/T 13542.2-2009	0.41
收缩率 Shrinkage 150 $^{\circ}$ C \times 30min (TD)		%	GB/T 13542.2-2009	0.12
层间剥离强度(PVDF//PET) Inter-layer adhesion		N/10mm	GB/T 2790-1995	6
涂层附着力 (FFC//PET) Coating adhesion		等级 grade	GB/T 9286-1998	0
与EVA粘接强度(初始) Peeling strength with EVA(Initial)		N/10mm	GB/T 2790-1995	68
击穿电压 Breakdown voltage		KV	GB/T 13542.2-2009	21.5
局部放电电压 Partial Discharge		VDC	GB/T 60664-1-2007	1052
水蒸气透速率 Moisture Vapor Transmission Rates		g/m ² ·d	GB/T 26253-2010	1.75
耐湿热老化试验 Damp-heat Testing (85 $^{\circ}$ C \times 85%RH,2000h)		/	IEC 61215-2005	不分层、不起泡、 ^a b \leq 2 No delamination, no bubble
紫外预处理 UV pretreatment (15kwh)		-	IEC 61215-2005	不分层、不起泡、 ^a b \leq 2 No delamination, no bubble
Super UV (65 $^{\circ}$ C \times 65%RH,60kwh)		-	GB/T 16422.2-2014	不分层、不起泡、 ^a b \leq 2 No delamination, no bubble
沸水处理 (沸水煮24h) Boiling water treatment (boiled for 24h)	外观检查 Visually inspect	-	GB/T 17748-2008	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
	涂层附着力 Coating adhesion	等级 grade	GB/T 9286-1998	0
	层间剥离强度 Inter-layer adhesion	N/10mm	GB/T 2790-1995	> 5
冷热循环处理 (-40 $^{\circ}$ C \sim 85 $^{\circ}$ C, 6h/周期, 200周期) TC200	外观检查 Visually inspect	-	IEC 61215-2005	不分层、不起泡、不褶皱 No delamination, bubble or fold
	击穿电压 Breakdown voltage	KV	GB/T 13542.2-2009	\geq 16
冷热循环50后湿冻处理 (-40 $^{\circ}$ C \sim 85 $^{\circ}$ C, 85%; 24h/周期, 10周期) HF10 after TC50	外观检查 Visually inspect	-	IEC 61215-2005	不分层、不起泡、不褶皱 No delamination, bubble or fold
	击穿电压 Breakdown voltage	KV	GB/T 13542.2-2009	\geq 16
耐酸/碱性 Acid/Alkali resistance		-	GB/T 17748-2008	不分层、不起泡 No delamination or bubble
耐盐雾性 Salt spray resistance		-	GB/T 2423.17-2008	不分层、不起泡 No delamination or bubble
落砂耐磨性 Falling abrasive resistance		L	GB/T 23988-2009	145.2 (标准砂粒径 Standard sand diameter: 0.25-0.65mm)

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