

	<b>ITEM No./ 型号: KPK-JM33</b>		
	<a href="http://www.jingmaosolar.com">www.jingmaosolar.com</a>		
	Stock Code/股票代码 : 838874		
	<b>浙江晶茂科技股份有限公司</b>		
<b>Unit</b> 单位	<b>Quoted Standard</b> 测试标准	<b>Industry Standard</b>	<b>Tested Result</b>



**Features: outside black match with black frame & inside white color for good reflection**  
**特色：空气面黑色适应黑色铝框降低透光率且电池面白色保证反光率**

Film Thickness 背膜厚度	Nominal Thickness 标称厚度	μM	Micrometer GB/P 13542.2-2009	~	330
	Nominal Tolerance 标称公差	μM	Micrometer GB/P 13542.2-2009	±5%	±5%
Tensile Strength (MD) 抗张强度		Mpa	ASTM D-882	≥80	125
Tensile Strength (TD) 抗张强度		Mpa	ASTM D-882	≥100	138
Elongation at Break (MD) 断裂伸长率		%	ASTM D-882	≥100	126
Elongation at Break (TD) 断裂伸长率		%	ASTM D-882	≥80	115
Shrinkage 150°C X 30min (MD)收缩率		%	GB/T 13541-92	≤1.5	0.58
Shrinkage 150°C X 30min (TD)收缩率		%	GB/T 13541-92	≤1.0	0.11
Inter-Layer Adhesion 层间剥离强度 (PVDF//PET)		N/10mm	GB/T2790-1995	≥5	8.5
Peeling Strength With EVA( initial) 与EVA粘接强度		N/10mm	GB/T2790-1995	≥40	88
Breakdown Voltage Strength 击穿电压强度		KV	ASTM D-149	≥18	28.5
Partial Discharge 局部放电		VDC	IEC 60664-1:2007	≥1000	1132
Water Vapor Transmission Rates 水汽透过率		g/m <sup>2</sup> .d	GB/T 26253-2010	≤1.5	1.3
Damp-Heat Testing 耐湿热老化试验		85°CX85% RH,1000h	IEC 61215-2005	△b≤2,no bubble, delamination or fold	
UV Pretreatment 紫外预处理		UVA+UVB 30kwh/M <sup>2</sup>	IEC61215-2005	△b≤2,no bubble, delamination or fold	

**ALL Materials could be approved by UL / 所有的材料都可提供UL认证**

Certified by



**Width available 680~1053mm**  
幅宽 680~1053mm