

三 阶 文 件 No.3 Level Document	文件编号 Document NO.	QW-8.3-028
标题: FFC-JW3010 (plus) 产品规格书 Title: Product Specification of FFC-JW3010 (plus)	版本.改次 Edition	D
	页 数 NO. of pages	2 / 3

1. 制定目的 The purpose

制定太阳能背板产品共同规格书，作为与客户沟通产品规格时使用。

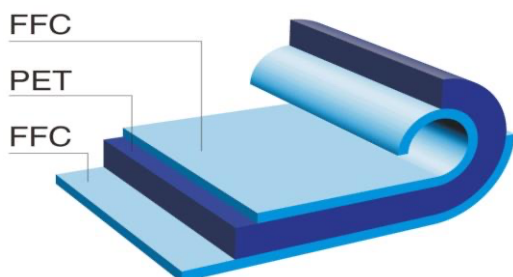
The purpose of drawing up this product specification is to communicate with the customer when they are using the backsheet.

2. 使用范围 Range of application

本产品规格书适用于太阳能电池封装背板产品，仅作为初步规格说明，详细内容与遵守的范围，与客户沟通确认后方可生效。

This specification which can be applied to PV backsheet products is just a preliminary explanation and will become effective after communication and confirmation with the customer.

3. 产品资料 Product information



(结构示意图 Structure profile)

产品型号 Product Type	产品名称 Product Name	结构 Structure	厚度 Thickness	颜色 Color
FFC-JW3010 (plus)	太阳能电池背膜 Solar Module Backsheet	FFC//PET//FFC	FFC (EVA side) : 12μm PET:285μm FFC (Air side) : 13μm Total:310μm (-10um/+15um)	白色/黑色 White/Black

4. 产品指标 Product index

项 目 Item	单 位 Unit	引用标准 Reference standard	数 值 Value
标称厚度 Nominal thickness	μm	GB/T 13542.2-2009	310
标称公差 Thickness deviation	-	--	-10um/+15um
拉伸强度 Tensile strength (MD)	N/mm ²	GB/T 13542.2-2009	≥ 120
拉伸强度 Tensile strength (TD)	N/mm ²	GB/T 13542.2-2009	≥ 120
断裂伸长率 Elongation at break (MD)	%	GB/T 13542.2-2009	≥ 100
断裂伸长率 Elongation at break (TD)	%	GB/T 13542.2-2009	≥ 90

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热收缩率 Heat shrinkage 150°C×30min (MD)	%	GB/T13542.2-2009	≤1.0
热收缩率 Heat shrinkage 150°C×30min (TD)	%	GB/T13542.2-2009	≤1.0
涂层附着力 Coating adhesion	等级 grade	GB/T 9286-1998	0 级
与 EVA 粘接强度(初始) Peeling strength with EVA(Initial)	N/10mm	GB/T 2790-1995	≥45
与 EVA 粘接强度 Peeling strength with EVA(85°C*85%RH,1000h)	N/10mm	GB/T 2790-1995	≥40
击穿电压 Breakdown voltage	kV	GB/T 13542.2-2009	≥18
局部放电电压 Partial Discharge	VDC	IEC 60664-1-2007	≥1500
水蒸气透过率 Moisture vapor transmission rate	g/m ² ·d	GB/T 26253-2010	≤2.5
耐湿热老化试验 Damp-heat Testing (85°C*85%RH,2000h)	/	IEC 61215-2005	不分层、不起泡、Δb≤2 No delamination, no bubble
紫外预处理 UV pretreatment (60kWh/m ²)	-	IEC 61215-2005	不分层、不起泡褶皱、Δb≤2 No delamination, no bubble or fold
沸水处理 (沸水煮 24h) Boiling water treatment (boil 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, no bubble or fold, no peeling or powdering
	涂层附着力 Coating adhesion	等级 grade	GB/T 9286-1998 0 级

5. 贮存 Storage:

产品储存稳定性高，无其他特殊储存要求，在阴凉干燥储存条件下质保期为一年，超过期限应做层压工艺通用性评估。

With high storage stability, generally this backsheet product requires no special storage conditions. In a cool, dry storage conditions, the quality assurance period of the backsheet is one year. If the storage time is longer than 1 year, an evaluation of its applicability with the laminating technics is recommended.