

太阳能电池背膜

Solar Module Backsheet

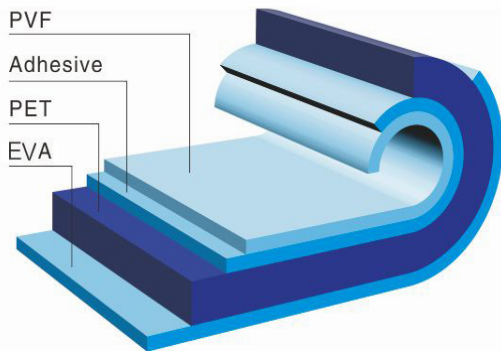
DuPont™ Tedlar® PVF Films

型号Model No.:ESUN-300

1. 氟碳结构，集成杜邦Tedlar，大金ZEFFLE
2. 氟碳内涂层技术更易于组件返修，不脱层；
3. 氟碳内涂层厚度15μm，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

1. fluorine structure (PVF//PET/EVA), integrating Tedlar (Dupont)、ZEFFLE(Daikin)
2. fluorocarbon inner coating technology, easier for module rework, no delamination;
3. fluorocarbon inner coating with thickness 15μm, excellent in UV resistance, non-yellowing;
4. Made-to-order backsheet with width under 1300mm is available.



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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	μm	GB/T 13542.2-2009	300
	标称公差 Nominal tolerance	-	-	±5%
抗张强度 Tensile strength (MD)		N/mm ²	GB/T 13542.2-2009	168
抗张强度 Tensile strength (TD)		N/mm ²	GB/T 13542.2-2009	176
断裂伸长率 Elongation at break (MD)		%	GB/T 13542.2-2009	170
断裂伸长率 Elongation at break (TD)		%	GB/T 13542.2-2009	137
收缩率 Shrinkage 150°C×30min (MD)		%	GB/T 13542.2-2009	0.55
收缩率 Shrinkage 150°C×30min (TD)		%	GB/T 13542.2-2009	0
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	66
击穿电压 Breakdown voltage		KV	GB/T 13542.2-2009	21.6
局部放电电压 Partial Discharge		VDC	GB/T 60664-1-2007	1061
水蒸气透过率 Moisture Vapor Transmission Rates		g/m ² ·d	GB/T 26253-2010	1.70
落砂耐磨性 Falling abrasive resistance		L	GB/T 23988-2009	155.3 (标准砂粒径 Standard sand diameter: 0.25-0.65mm)
人工辐射暴露 Radiation exposure (QUVB,4000h)		/	GB/T 16422.3-1997	4级 grade 4
紫外预处理 UV pretreatment (15kwh)		-	IEC 61215-2005	不分层、不起泡、不褶皱、△b≤2 No delamination,bubble or fold
耐湿热老化试验 Damp-heat Testing (85°C×85%RH,2000h)		-	IEC 61215-2005	不分层、不起泡、△b≤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
冷热循环处理 (-40°C~85°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	≥16
冷热循环50后 湿冻处理 (-40°C~85°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	≥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

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