

TPT300 规格书

Technical Data Sheet of TPT300

项目 Item		单位 Unit	检测标准 Test Standards	数值 Value
背板厚度 Backsheet thickness	标称值 Nominal value	mm	GB/T 31034-2014	0.28
	标称公差 Nominal tolerance	—	—	±10%
拉伸强度 Tensile strength(MD/TD)		MPa	GB/T 31034-2014	150/140
断裂伸长率 Elongation at break (MD/TD)		%	GB/T 31034-2014	110/130
热收缩率 Thermal shrinkage (MD/TD)		%	GB/T 31034-2014	0.66/0
涂层附着力 Coating adhesion		等级 grade	GB/T 31034-2014	0
背板/EVA 剥离强度 Backsheet/EVA peeling strength		N/cm	GB/T 31034-2014	82
背板/硅胶剥离强度 Backsheet/silicone peeling strength		N/cm	GB/T 31034-2014	12
击穿电压 Breakdown voltage		KV	GB/T 31034-2014	21.6
体积电阻率 Volume resistivity		$\Omega \cdot m$	GB/T 31034-2014	$\geq 1.0 \times 10^{13}$
系统最大电压 Maximum system voltage		V	GB/T 31034-2014	1118
水蒸气透过率 Moisture Vapor Transmission Rates (38°C,90%RH)		$g/(m^2 \cdot 24hrs)$	GB/T 21529-2008	1.65
耐湿热老化试验 Damp-heat testing (85°C, 85%RH, 3000hrs)		/	GB/T 31034-2014	不分层、不起泡、无裂纹, 表面和胶层无显著发黏, $\Delta b \leq 3$ / No delamination, blister or crack, not significantly sticky on the surface and adhesive layer, $\Delta b \leq 3$
UV 处理 UV treatment (60kWh/m ²)		/	GB/T 16422.2-1999	不分层、不起泡、无裂纹, 表面和胶层无显著发黏, $\Delta b \leq 3$ / No delamination, blister or crack, not significantly sticky on the surface and adhesive layer, $\Delta b \leq 3$
沸水处理 Boiling water treatment (24hrs)	外观 Apparent	/	GB/T 31034-2014	不分层、不起泡、不变色、无褶皱, 表面和胶层无显著发黏 No delamination, blister, discoloration or fold, not significantly sticky on the surface and adhesive layer
	涂层附着力 Coating adhesion	等级 grade	GB/T 31034-2014	0
冷热循环处理 Hot and cold cycle processing (-40~85°C,6h/cycle, 200 cycles)		/	GB/T 31034-2014	不分层、不起泡、不变色、无裂纹、无褶皱, 表面和胶层无显著发黏 No delamination, blister, discoloration, crack or fold, not significantly sticky on the surface and adhesive layer
湿冻处理 Damp-Frozen processing (-40~85°C, 85%RH, 24h/cycle, 10 cycles)		/	GB/T 31034-2014	不分层、不起泡、不变色、无褶皱, 表面和胶层无显著发黏 No delamination, blister, discoloration or fold, not significantly sticky on the surface and adhesive layer
耐酸性 Acid resistance		/	GB/T 31034-2014	不分层、不起泡、不变色 No delamination, blister or discoloration
耐碱性 Alkali resistance		/	GB/T 31034-2014	不分层、不起泡、不变色 No delamination, blister or discoloration
耐盐雾性 Salt spray resistance		/	GB/T 2423.17-2008	不分层、不起泡、不开裂、不粉化、无明显变色 No delamination, blister, cracking or powdering, no significant discoloration
耐溶剂性 Solvent resistance		times 次	GB/T 31034-2014	≥ 1000