

KPC 规格书

Technical Data Sheet of KPC

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	0.29
	标称公差 Nominal tolerance	—	—	±10%
拉伸强度 Tensile strength(MD/TD)		MPa	GB/T 31034-2014	155/146
断裂伸长率 Elongation at break (MD/TD)		%	GB/T 31034-2014	160/140
热收缩率 Thermal shrinkage (MD/TD)		%	GB/T 31034-2014	0.62/0.10
层间剥离强度 Peeling strength between layers		N/cm	GB/T 31034-2014	7.2
背板/EVA 剥离强度 Backsheet/EVA peeling strength		N/cm	GB/T 31034-2014	80
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	24
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	1260
水蒸气透过率 Moisture Vapor Transmission Rates (38°C,90%RH)		$g/(m^2 \cdot 24hrs)$	GB1037 1988	1.62
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/ No delamination, blister or crack, not significantly sticky on the surface and adhesive layer
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
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
	层间剥离强度 Peeling strength between layers	N/cm	GB/T 31034-2014	4.8
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/碱性 Acid/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

*注：数据为典型值。/ Note: The data is typical value.