

Specification of Backsheet

Professional suitable for solar modules back sealing substrate

| 项目 Project | 单位 Unit | 检测方法 Detection | 数值 Value |
|--|--------------------------------------|---|--|
| 背板厚度 Backsheet Thickness | μm | 电子数显千分尺 Electronic digital micrometer GB/T 13542.2-2009 | $300 \pm 10\%$ |
| 抗张强度 (MD) Tensile strength (MD) | N/mm^2 | GB/T 13542.2-2009 | ≥ 100 |
| 抗张强度 (TD) Tensile strength (TD) | N/mm^2 | GB/T 13542.2-2009 | ≥ 100 |
| 伸长率 (MD) Elongation (MD) | % | GB/T 13542.2-2009 | ≥ 100 |
| 伸长率 (TD) Elongation (TD) | % | GB/T 13542.2-2009 | ≥ 100 |
| 收缩率 $150^\circ\text{C} \times 30\text{min}$ (MD) Shrinkage $150^\circ\text{C} \times 30\text{min}$ (MD) | % | GB/T 13542.2-2009 | ≤ 1.2 |
| 收缩率 $150^\circ\text{C} \times 31\text{min}$ (TD) Shrinkage $150^\circ\text{C} \times 31\text{min}$ (TD) | % | GB/T 13542.2-2009 | ≤ 0.6 |
| 与 EVA 粘结强度 (初始) Adhesion strength with EVA (initial) | N/cm | GB/T 2790-1995 | ≥ 60 |
| 层间剥离强度 Layer Peeling strength | N/cm | GB/T 2790-1995 | ≥ 4 |
| 局部放电电压 Partial discharge voltage | VDC | GB/T 16935.1-2008 | ≥ 1030 |
| 击穿电压强度 Breakdown voltage strength | KV/mm | GB/T 1408.1-2006 | ≥ 85 |
| 水蒸气透过率 Water Vapor Transmission Rate | $\text{g}/\text{m}^2 \cdot \text{d}$ | GB/T 26253-2010 | ≤ 2.0 |
| 耐湿热老化试验 ($90^\circ\text{C} \times 90\% \text{RH}, 2000\text{h}$) Resistance to heat aging test | | GB/T 13448-2006 | 不脱层, 不起泡, 不变色 No delamination, blistering |