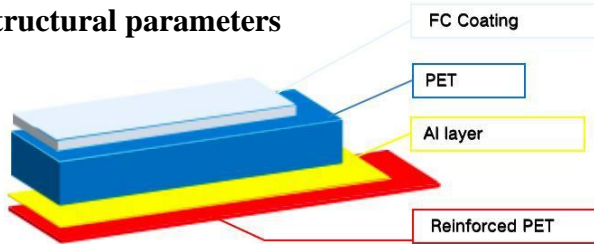


回天 PV331S-type solar cell backsheet is a kind of water resistance backsheet made of reinforced high-barrier biaxially oriented polyester film as support and weather-resistant layer, high-translucent fluorocarbon coating independently developed by Huitian as EVA bonding layer, and aluminum foil as high barrier layer.

Structural parameters



| Composition | Material name | Thickness |
|--------------------|----------------------|-----------|
| Air layer | Reinforced PET film | 50±10μm |
| Barrier layer | Aluminum foil | 20±15μm |
| Main base material | PET film | 300±30μm |
| EVA layer | Fluorocarbon coating | 8±5μm |

Typical applications

Encapsulation of crystalline silicon photovoltaic modules.

Packing parameters

Coiled Packing is available. Outer packing is carton; inner packing is sealed. There is information such as product name, model, batch number and batch barcode, production date, certification mark, directions for use, and number of joints on the carton.

Coil specification: 1130mm (width is customizable).

Pallet specification: 200m coil, 3×3 per pallet; 600m coil is also available.

Performance parameters

| Item | Method/Standard | Unit | Indicator | |
|--------------------------------------|-------------------|-----------------------|--------------------------------------------------------------------------|------|
| Color | / | / | White /White outside and black inside | |
| Nominal thickness | GB/T 13542.2-2009 | μm | 378 | |
| Tensile strength | MD | MPa | ≥110 | |
| | | TD | MPa | ≥100 |
| Elongation at break | MD | ASTM D882-2010 | % | ≥100 |
| | | TD | % | ≥90 |
| Thermal shrinkage | MD | GB/T 13542.2-2009 | % | ≤1.5 |
| | | TD | 150±2°C/30min | % |
| Coating adhesion | GB/T 9286 1998 | - | Grade 0 | |
| EVA lamination peeling force | GB/T 2709-1995 | N/cm | ≥60 | |
| Water vapor transmission rate | GB/T 26253-2010 | g/(m ² ·d) | < 0.01 | |
| Volume resistivity | GB/T 1410-2006 | Ω·cm | ≥1.0*10 ¹⁵ | |
| Breakdown voltage | GB/T 1408.1-2006 | kv | ≥18 | |
| System voltage 1500V | IEC62788-2 2017 | μm | DTI> 300 | |
| DH2000H | IEC61215-05 10.13 | / | No cracking, delamination, blistering or chalking, yellowing index: Δb≤3 | |
| UV240kWh (air side) | IEC61215-05 10.11 | | | |

This product is suitable for various lamination processes, and bonds well to commercially available encapsulation materials. It features good overall physical and mechanical properties as well as excellent insulation, barrier, weather-resistant, and aging-resistant properties, which can ensure the use of components for more than 25 years.