Water-Based High-Reflective Ink

Quality Standards (Enterprise Standards)

Test Items	Parameters	Testing Method
Typical Reflectivity	Pass	76 - 81%@650 nm; normally 78%
Physical Appearance	Pass	Dull White
Typical Thickness	Pass	15-25μm
Typical Coating Mileage	According to the actual	Flooding Coverage : 5-10 sqm/kg Screen Printing: 25-50 pieces/kg
High-temperature Steaming Test	Adhesive level remains same	Steaming @ 100℃ for 96 hours
Salt Water Immersion Test	Pass	Immerse in salt solution (50g/lNaCl) @ 35℃ for 100 hours
Acid Contact Test	Pass	In contact with acid solution (3.5% HCl) @ 25℃ for 15 minutes
Pencil Hardness	Pass	≥3H
Mechanical Test	≤ Level 1	Hundred Grid Method
POE Bonding Test	≥60N/cm	First TF4 POE Lamination,1cm Wide Strip Splash

Water-based high-reflective ink is primarily used for screen printing on the backsheet glass of photovoltaic modules. This type of high-reflective ink refl-ects light back onto the photovoltaic silicon wafer, further enhancing the power generation efficiency of the photovoltaic module. It achieves higher power generation efficiency on the same line.