



PV Industry UV Photovoltaic PV Resin

Basic Information

- Brand Name: Meilun Materials
- Model Number: SNK
- Minimum Order Quantity: 20kg
- Packaging Details: 20kg/barrel, 200kg/barrel
- Payment Terms: L/C, T/T
- Supply Ability: 50T/month



Product Specification

- Highlight: UV Photovoltaic Adhesive Resin,
UV pv Adhesive Resin,
UV yellowing resistant resin



武汉美纶新材料有限公司
WUHAN MEILUN NEW MATERIALS CO., LTD

Product Description

UV Photovoltaic Adhesive Resin Product Introduction

UV (ultraviolet curing) photovoltaic adhesive resin is a core material in the solar module manufacturing industry, specifically designed to meet the demands of high-efficiency production, long-term reliability, and environmental sustainability. Utilizing UV rapid curing technology, it enables instant bonding and encapsulation while offering high transparency, superior weather resistance, and exceptional adhesion strength. This enhances the power generation efficiency and lifespan of photovoltaic (PV) modules. Below is an overview of our specialized resin solutions for PV applications:

1. Basic Functional Resin Series

UV Photovoltaic Adhesive Resin: A general-purpose adhesive base material suitable for PV cell encapsulation and backsheet bonding, providing balanced adhesion strength and curing efficiency.

Photovoltaic Resin: Specially designed for solar modules, compatible with EVA films, glass, and metal frames to ensure stable and reliable interface bonding.

UV High-Adhesion Resin: Ultra-high bonding strength (>10MPa), ideal for complex load-bearing applications such as frame sealing and junction box fixation, preventing delamination and moisture ingress.

2. High-Performance Specialty Resin Series

UV High-Transparency Resin: With over 92% light transmittance, it achieves optical performance comparable to glass, minimizing light energy loss and improving module power output.

UV High-Weatherability Resin: Successfully passes 3,000-hour QUV aging tests, offering resistance to UV exposure, extreme temperatures (-40°C to 120°C), and humidity, making it suitable for harsh environments like deserts and coastal areas.

UV Fast-Curing Resin: Cures within 5-10 seconds, seamlessly integrating with automated production lines, significantly enhancing module assembly efficiency while reducing energy consumption.

3. Application Scenarios & Core Value

UV photovoltaic adhesive resins are extensively used in the encapsulation and curing processes of solar modules. They serve critical functions in bonding the backsheet to the solar cells and securing the module's frame and sealing components, ensuring structural integrity during transport and installation.

Solar Cell Encapsulation: High-transparency resin minimizes photon loss, while weather-resistant resin withstands high-temperature lamination, ensuring long-term cell stability.

Frame & Junction Box Sealing: High-adhesion resin prevents moisture ingress, extending module lifespan; fast-curing resin aligns with high-speed assembly requirements.

Next-Generation Module Development: Supports innovative designs such as bifacial glass-glass modules and lightweight flexible modules, with customizable viscosity and modulus options.

Core Product Advantages

Efficiency Revolution: Ultra-fast curing technology improves production efficiency by over 50%, reducing overall costs.

Reliable Durability: Compliant with IEC 61215 and IEC 61730 international certifications, ensuring more than 25 years of outdoor module lifespan.

Green & Low-Carbon: Solvent-free, low VOC formulation meets RoHS/REACH standards, contributing to carbon neutrality goals.

Flexible Adaptability: Offers a full range of products from low-viscosity encapsulation adhesives to high-toughness structural adhesives, catering to diverse processing needs.

Choose our **UV Photovoltaic Adhesive Resins** to empower the future of clean energy with cutting-edge materials!

For customized development or technical consultation, contact our **PV materials expert team** for **end-to-end solutions**.

Recommended product models(please search on the site):

SNK-2213-26

Storage and validity period:

1: This product should be stored in a cool, well-ventilated room, and strictly protected from light exposure for stable storage.

2: Keep the resin away from heat sources and store it in a dark place to prevent potential hazards or affecting the stability of resin storage.

3: When stored at room temperature, it remains stable for six months. After use, please tightly seal the container to avoid exposure to light sources and gelation.

Package

200 kilograms/iron drum

20 kilograms/iron drum

200 kilograms/plastic drum

20 kilograms/plastic drum

colloidal material UV photovoltaic resin -2

PV resin for solar cell -3



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