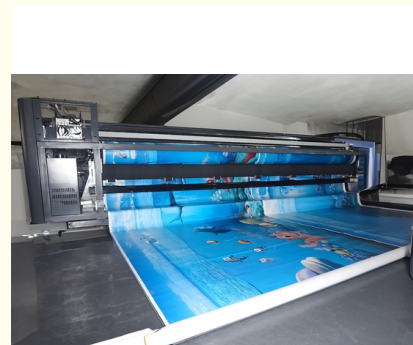




## UV Inkjet Resin

### Basic Information

- Place of Origin: Wuhan, Hubei, China
- 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 Inkjet Resin, uv printing ink resin, UV high resolution resin



## Product Description

### UV Inkjet Resin Product Overview

#### I. Product Overview

##### 1. Definition & Characteristics

- o UV inkjet resin is a specialty resin based on ultraviolet (UV) curing technology, designed for high-precision inkjet printing. It features rapid curing, environmental efficiency, and stable performance.
- o The core components include polyurethane acrylate, polyester polyurethane acrylate, and aliphatic polyurethane acrylate, providing excellent overall performance.

##### 2. Application Fields

- o Widely used in high-value-added industries such as packaging printing, 3C electronics, advertising signage, automotive decoration, and industrial coatings.

---

#### II. Core Technology & Product Classification

##### 1. Resin System Technology Analysis

- o Polyurethane Acrylate: Balances flexibility and hardness, suitable for high-adhesion applications.
- o Polyester Polyurethane Acrylate: Enhances chemical resistance and mechanical strength, ideal for complex substrates.
- o Aliphatic Polyurethane Acrylate: Provides outstanding yellowing resistance and weather resistance, suitable for long-term outdoor exposure.

##### 2. Functional Product Series

- o UV Fast-Curing Resin: Optimized photoinitiation efficiency enables second-level curing, improving production efficiency.
- o UV High-Adhesion Resin: Designed for challenging substrates such as glass, metal, and plastic.
- o UV High-Resolution Resin: Utilizes nano-dispersion technology to support fine patterns and micron-level line printing.
- o UV High-Durability Resin: Resistant to abrasion and scratches, extending product lifespan.
- o UV High-Weatherability Resin: UV-aging and temperature-resistant, suitable for extreme environments.

---

#### III. Key Performance Advantages

##### 1. Efficient & Eco-Friendly

- o Zero VOC emissions, compliant with international environmental standards such as RoHS/REACH.
- o Low-energy curing reduces carbon footprint.

##### 2. Superior Printing Effects

- o High color gamut and color saturation, combined with high-resolution resin for vivid and detailed images.
- o Low shrinkage rate to prevent printing deformation.

##### 3. Long-Term Stability

- o High-weatherability resin resists UV, humidity, and salt spray corrosion, ensuring over five years of outdoor durability.
- o High-durability resin passes rigorous physical tests (e.g., 5,000-cycle abrasion resistance test).

##### 4. Wide Compatibility

- o Compatible with various printheads (piezoelectric, thermal bubble) and substrates (plastic, metal, ceramic, etc.).

---

#### IV. Application Scenarios & Solutions

##### 1. Industrial Printing

- o Electronic circuit board markings and glass panel decoration rely on high-resolution and high-adhesion resins.

##### 2. Packaging Printing

- o Food-grade certified resin for color boxes and bottle caps, offering both durability and visual appeal.

##### 3. Outdoor Advertising & Automotive

- o High-weatherability resin ensures long-lasting color retention for signage, while interior coatings resist aging.

##### 4. Personalized Customization

- o Fast-curing properties support small-batch, multi-batch flexible production.

---

#### V. Market Competitiveness & Future Outlook

##### 1. Alignment with Industry Trends

- o Replacing traditional solvent-based inks to support global green manufacturing and carbon neutrality goals.
- o Meeting the demands of 5G and smart wearable devices for miniaturization and high-precision printing.

##### 2. Technological Advancements

- o Developing low-viscosity resins to accommodate high-speed inkjet printing.
- o Increasing the proportion of bio-based raw materials to drive sustainable development.

---

#### VI. Conclusion

Through innovative resin formulations (e.g., aliphatic/polyester polyurethane acrylate) and functional design (fast curing, high weatherability), UV inkjet resin has become a key material for high-end printing and industrial coatings. Future developments will continue to overcome technological barriers, empowering smart manufacturing and green economy initiatives.

#### Package:

- 200 kilograms/iron drum
- 20 kilograms/iron drum
- 200 kilograms/plastic drum
- 20 kilograms/plastic drum



## Wuhan Meilun New Materials Co., Ltd



+8618062439876



hu1150563785@gmail.com



melonmaterials.com

Room 1206-1207, Building 8, Country Garden Yunxi Office, No. 20 Gaokeyuan West Road, Jiufeng Street, East  
Lake New Technology Development Zone, Wuhan