L-61061 Adhesive Monomer

Description

L-61061 NVP is a monofunctional organic compound with high polarity, cationic activity, water solubility and chemical stability. It is miscible with ethanol and other organic solvents and easily copolymerized with other vinyl compounds. It is used in the wood flooring industry, paper or paperboard industry, packaging adhesive materials, and screen ink industry.

Technical Data

Appearance	Transparent liquid
Color Value（APHA）	≤ 80
KOH/g)	≤ 0.5
Viscosity (25°C, CPS)	3～8
Moisture %	≤ 0.2
Inhibitor (ppm)	≤ 300
Refractive Index	1.554
Surface Tension Dynes/cm,20℃	52.3
Glass Transition Temperature Tg,℃	-65
Functional Group	1

Applications

UV adhesive, UV inkjet, UV ink, UV coating, UV hydrophobic coating, etc.

Product Features

1. **Plastics**: This monomer can be incorporated into UV-curable coating formulations to produce flexible yet hard plastic films. When added to radiation-curable medical formulations, it can improve elongation, viscosity, and other properties of both high-gloss and matte coatings.

2. **Wood**: The main drivers for using this monomer in the furniture industry are to enhance product performance, improve productivity, and reduce environmental impact. In the wood flooring industry, incorporating it into UV-resistant coatings can provide physical properties comparable to wax-free floors.

3. **Paper Industry:** In the paper or cardboard industry, UV- and EB-curable coatings are commonly used, typically requiring low viscosity and high reactivity. These standards are met by improving flow properties and leveling, while maintaining good curing performance.

4. **Metal:** UV coatings for metals typically use cationic vinyl ether/epoxy or heterocyclic-based systems. The monomer functions as an excellent reactive diluent, crosslinking with vinyl ether or acrylic functional groups in these formulations to enhance performance.

5. **Ink:** In the packaging market, EB and UV curing technologies are employed to speed up production and reduce energy consumption. High-performance, low-odor cured inks hold a significant share in the screen printing varnished segment.

6. **Electronics:** Electrical equipment manufacturers rely on UV coatings for rapid processing and low-temperature curing to protect cables, electrical components, and printed circuit boards (PCBs).

7. **Adhesives:** Strict emission regulations and high curing speed requirements have driven the development of a wide range of UV-curable adhesives in this industry.

Storage Conditions

To prevent premature polymerization due to the high reactivity of this product, keep it tightly sealed and store away from heat sources and direct sunlight. It is recommended to maintain storage temperature below 30 °C. Unused product should be promptly resealed and must not be left open. Under ventilated conditions at 25 °C, the product has a safe storage period of 6 months. Available packaging: 25 kg / 200 kg per drum

Tips: L-61061 UV curing has low shrinkage and excellent adhesion on a variety of metal substrates.