

L-8100 Amine-Modified Acrylate Resin

Description

L-8100 is a special amine-modified grafted UV-curable resin featuring fast LED curing speed and excellent surface-drying performance. The cured film exhibits low shrinkage, good flexibility, and enhanced adhesion to various substrates. It also demonstrates very low exothermic heat during curing, making it highly suitable for low-heat applications such as thermochromic coatings, silver coatings, and UV nail gels. The resin is highly compatible with various UV-curable systems and offers excellent formulation stability, making it ideal for LED-curable systems, UV coatings, UV inks, UV inkjet formulations, UV varnishes, and UV roll coatings.

Technical Data

Appearance	Transparent liquid
Color Value (Gardner)	≤ 1
Viscosity (25°C, CPS)	3,000 - 5,000
UV Content (%)	100
Density (25°C, g/cm ³)	1.1 ± 0.1
Acid Value (mg KOH/g)	1 - 4
Refractive Index	1.488
Shore Hardness	87A
Functional Group	2

Product Features

Low odor and minimal residual odor after curing

Promotes deep-layer curing with excellent surface-drying performance and minimal impact on hardness

Good pigment wetting and dispersion stability

Improves chemical resistance and heat resistance of the final coating

Applications

UV coatings; UV 3D printing inks; UV screen printing inks; UV adhesives; UV solder mask inks; UV inkjet inks; UV nail gel polish; UV flexographic inks; and UV roll-coating formulations.

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: 20 kg / 200 kg per drum

Tips: L-8100 provides excellent adhesion promotion to various substrates such as plastics and metals. It is especially effective in enhancing both surface and through curing of low-functional UV resins.

Note: Technical data represents typical values only. In view of the differences in formulas, production process, conditions, all the above statements must be adjusted according to the actual situation, our company does not make any promises. Our company reserves the right to reform its products without prior notice of any changes.