

## L-6135A Flexible UV Epoxy Resin

### Description

**L-6135A** is a modified flexible epoxy acrylate resin. The epoxy acrylate groups are linked by flexible long-chain molecules, with a certain amount of carboxyl groups incorporated into the chains. It retains the high reactivity, brightness, and low cost of conventional epoxy acrylates, while offering more balanced flexibility, and improved build and gloss. Additionally, the presence of carboxyl groups enhances adhesion, substrate wettability, and metallization performance.

### Technical Data

|                                     |                              |
|-------------------------------------|------------------------------|
| Appearance                          | Colorless transparent liquid |
| Viscosity (60°C, CPS)               | 4,000-10,000                 |
| Color Value (Gardner)               | ≤2                           |
| UV Content (%)                      | 100                          |
| Density (g/cm <sup>3</sup> , 25°C)  | 1.1±0.1                      |
| Acid Value (mg KOH/g)               | ≤3                           |
| Refractive Index                    | 1.548                        |
| Shore Hardness                      | 90A                          |
| Tensile Strength (MPa)(ASTM D882)   | 16.46                        |
| Elongation at Break (%) (ASTM D882) | 57.33                        |
| Functional Group                    | 2                            |

### Product Features

High gloss and high film build  
Good adhesion and substrate wettability  
Excellent flexibility  
Good water boiling resistance and metallization performance

### Applications

UV nail polish; UV varnishes for paper; UV plastic coatings; UV ink; UV vacuum metallized primers; TPU UV coatings, etc.

### 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 drums.

**Tips: L-6135A is a resin with outstanding flexibility.**

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.