

L-6240 LED Curable 2-functional Polyurethane Resin

Description

L-6240 is a specially modified, highly reactive polyurethane acrylate for LED cold light and low-energy curing systems. It offers excellent surface-drying performance and forms a high-gloss, tough, scratch- and abrasion-resistant film. Suitable for LED and UV systems such as vacuum metallization primers, topcoats, varnishes, inks, and eco-friendly nail gels, it enhances film toughness, drying speed, abrasion resistance, and leveling.

Technical Data

Appearance	Colorless transparent liquid
Viscosity (25°C, CPS)	22,000-32,000
Color Value (Gardner)	≤1
UV Content (%)	100
Density (g/cm ³ , 25°C)	1.1±0.1
Acid Value (mg KOH/g)	≤3
Refractive Index	1.501
Shore Hardness	75D
Tensile Strength (MPa)(ASTM D882)	34.3
Elongation at Break (%) (ASTM D882)	5.3
Functional Group	2

Product Features

High hardness, high gloss, good wear resistance
High reactivity, and can be rapidly cured under both 365 nm and 395 nm LED light sources
Highly cross-linked, good chemical resistance
Outstanding scratch resistance, superior toughness, and high tensile strength

Applications

Widely used in SPC flooring, PVC flooring, 3D printing resins, UV DIY glues, UV nail polishes, UV screen printing inks, 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-6240 features odor-free performance, high transparency, and excellent compatibility with various UV resins.