

L-6390 Tough 4-functional UV Polyurethane

Description

L-6390 is a specially modified polyurethane acrylate resin featuring high reactivity, excellent water and heat resistance, strong adhesion to metals and various plastics such as PC, ABS, PMMA, and TAC. It offers good flexibility, superior vibration and abrasion resistance, and a well-balanced combination of hardness and toughness, making it an ideal choice for durable, wear-resistant coatings.

Technical Data

Appearance	Colorless transparent liquid.
Viscosity (60°C, CPS)	4,000-8,000
Color Value (Gardner)	≤ 1
UV Content (%)	100
Density (25°C, g/cm ³)	1.1±0.2
Acid Value (mg KOH/g)	≤ 1
Refractive Index	1.481
Shore Hardness	75D
Tensile Strength (MPa)(ASTM D882)	10.6
Elongation at Break (%) (ASTM D882)	5.5
Functional Group	4

Product Features

Excellent water and heat resistance

Strong adhesion to metals

Well-balanced flexibility and hardness

Good resistance to yellowing (700mj/cm², B value 1.1 after curing)

Applications

3C electronic coatings; clear DIY resins; SPC floor; adhesives; UV 3D printing resins; UV nail polish color gel and topcoats, 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 per drum.

Tips: : L-6390 has excellent toughness and yellowing resistance, can be used in nail polish coloring gel and topcoats.

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.