

L-6900A Aliphatic 9-functional UV Polyurethane Resin

Description

L-6900A is an aliphatic nonafunctional polyurethane acrylate resin featuring high reactivity and a high crosslink density. The cured coating exhibits excellent solvent resistance, scratch resistance, and abrasion resistance, along with high hardness while remaining tough rather than brittle. It also offers excellent yellowing resistance. L-6900A is particularly suitable for UV coatings with high scratch and abrasion resistance requirements, UV anti-graffiti coatings, and UV scratch-resistant inks.

Technical Data

Appearance	Colorless transparent liquid
Viscosity (60°C, CPS)	4,000-8,000
Color Value (Gardner)	≤ 2
UV Content (%)	≥ 98
Density (25°C, g/cm ³)	1.1±0.1
Acid Value (mg KOH/g)	≤ 2
Shore Hardness	85D
Functional Group	9

Product Features

Excellent weatherability and yellowing resistance, with good QUV resistance

High hardness and high gloss, combined with good flexibility

Excellent abrasion and scratch resistance

Applications

UV high-gloss clear coats, UV plastic coatings, and UV screen printing varnishes; it can also be applied as primers and topcoats for metal and vacuum metallized films, as well as UV clear topcoats for PVC surfaces, paper, wood, and other UV coatings and UV inks.

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 / 25kg / 200 kg per drum.

Tips: L-6900A is an aliphatic nonafunctional polyurethane featuring high hardness, excellent abrasion resistance, and outstanding overall performance.

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.