

L-6605 High Viscosity 6-Functional UV Polyurethane Resin

Description

L-6605 is a low-shrinkage, aliphatic 6-functional UV polyurethane acrylate resin. It is recommended for coatings, inks, inkjet, 3D printing, and other high-performance, rigid UV-curable applications. The resin provides high crosslink density, producing hard yet non-brittle films with good adhesion, excellent leveling and gloss, yellowing resistance, outstanding pigment wetting and flow, weather resistance, and easy matting.

Technical Data

Appearance	Colorless transparent liquid
Viscosity (25°C, CPS)	75,000 - 120,000
Color Value (Gardner)	≤ 1
UV Content (%)	100
Acid Value (mg KOH/g)	≤ 1
Refractive Index	1.492
Shore Hardness	86D
Functional Group	6

Product Features

High reactivity and high hardness; cured films are hard yet non-brittle and resistant to chipping

Excellent leveling, high film build, and high gloss

Good chemical resistance, vibration and abrasion resistance, and excellent RCA performance

Applications

Widely used in UV high-gloss varnishes, UV plastic coatings, UV vacuum metallized primers, UV screen printing varnishes, UV texture transfer 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 / 25kg / 200 kg per drum.

Tips: L-6605 is a high-viscosity, hexafunctional UV polyurethane acrylate resin, primarily designed to deliver high gloss, high hardness, hard-yet-non-brittle films, and low shrinkage.

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.