

L-6122 High-Viscosity, Fast-Curing Hyperbranched Polyester

Description

L-6122 is a specially modified grafted UV polyester resin with ultra-fast UV curing performance. It can fully cure even in very thin coatings ($\sim 0.1\ \mu\text{m}$) and provides excellent surface hardness and scratch resistance. The resin exhibits outstanding pigment wetting, maintaining excellent dispersion, gloss, and color even under a high pigment loading of 1:1, without compromising overall flow properties. It is particularly suitable for high-performance UV offset printing, accelerated UV roller coating, high-pigment UV inkjet, and various UV coatings, enabling faster curing, adjustable surface hardness, and enhanced pigment wetting.

Technical Data

Appearance	Transparent viscous liquid
Viscosity (60°C, CPS)	4,500-7,500
Color Value (Gardner)	≤ 1
UV Content (%)	100
Density (25°C, g/cm ³)	1.1 $\pm$ 0.1
Acid Value (mg KOH/g)	3-5
Refractive Index	1.509
Shore Hardness	89.5D
Functional Group	6

Product Features

Ultra-fast cure speed
Excellent pigment wetting
High gloss, good fluidity

Applications

UV varnishes; UV plastic coatings; UV inkjet; UV screen printing inks; UV offset inks; UV nail color gels; and large-area UV applications on PVC flooring, PVC leather, and paper.

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-6122 is halogen-free and non-irritating, with high viscosity, ultra-fast cure speed and excellent pigment wetting.

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.