Lencolo®
蓝柯路

TDS

2025/10/01

L-61052 (DPPA) Dipentaerythritol pentaacrylate

CAS#：60506-81-2

Molecular Structure: C25H32O12　　Molecule Weight (g/mol): 524.5

Description

L-61052 is a multifunctional UV-curable monomer characterized by low odor and extremely low skin irritation. It offers fast curing and high reactivity, effectively accelerating the overall curing process. Its high crosslinking density provides cured films with excellent hardness, abrasion resistance, chemical resistance, and scratch resistance.

Technical Data

Appearance	Transparent liquid
Color Number (APHA)	≤ 50
Viscosity (25ºC, CPS)	5600 - 8000
Water (%)	≤ 0.1
Polymerization Inhibitor (ppm)	300 - 500
Refractive Index	1.485
Tg (ºC)	68
Acid Value (mgKOH)	≤ 0.5
Functional Group	Multiple functional groups

Product Features

High curing rate, high hardness, high scratch resistance; high cross-linking density, good chemical resistance, enhanced wear resistance and boiling resistance of the coating.

Applications

It is widely used in the photocuring polymerization reaction of various unsaturated systems such as UV coatings, LED-3D printing inks, UV screen printing varnishes, UV adhesives, UV glues, UV inkjet, LED curing 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: 25 kg / 200 kg per drum

Tips: L-61052 Even at a thin coating thickness of 0.1 μm, it delivers excellent abrasion and scratch resistance.