

Lencolo 5040 Photoinitiator for 3D Printing

Description

Lencolo 5040 has a strong absorption peak, effectively absorbing light in the 400–450 nm range. Upon irradiation, it generates highly active free radicals, resulting in enhanced polymerization efficiency. It is specifically designed for UV polymerization of various unsaturated systems, including UV inkjet inks, UV inks, and UV 3D printing resins.

Technical Data

Appearance	Transparent light yellow liquid
Purity (%)	≥ 98
Density (g/cm ³ , 25°C)	1.1 ± 0.1
Volatile Content (%)	≤ 0.5
Ash Content (%)	≤ 0.1
Absorption Peak (nm)	265 - 450

Product Features

- Especially suitable for UV 3D printing; provides better curing performance than TPO, producing finer details at the same addition level. The same effect can be achieved with only 60% of TPO's dosage
- Clear, impurity-free liquid, easy to incorporate into various UV systems
- High absorption peak, ideal for deep curing of colored, dark, and black UV systems, ensuring more complete bottom-layer cure

Applications

UV adhesives; UV 3D printing resins; UV nail polishes; UV inks; UV coatings; UV conversions; UV texture transfer coatings; UV pressure sensitive adhesives, 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 per drum

Tips: Lencolo 5040 is a liquid photoinitiator, particularly suitable for UV 3D printing; provides better curing performance than TPO, producing printed parts with finer details compared to TPO

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.