Lencolo®
蓝柯路

TDS

2025/10/01

Lencolo 5031D Low Odor Synergistic Photoinitiator

Description

Lencolo 5031D is a photoinitiator promoter specifically designed for UV systems, effectively enhancing the reactivity of various UV resins. It exhibits strong absorption in the 365–395 nm wavelength range. It is suitable for a variety of UV coatings and UV adhesives cured with LED lamps, and can also be used in mercury lamp-cured UV systems to improve surface drying and crosslinking density.

Technical Data

Appearance	Transparent liquid
Purity (%)	≥ 99.5
Volatile content(%)	≤ 0.5
Ash content(%)	≤ 0.1
Absorption peak(nm)	365-395

Product Features

Increases UV curing rate and effectively promotes curing of various UV systems, ensuring more complete cure, higher conversion, and improved depth-of-cure performance
Highly suitable as a photoinitiator for a wide range of LED UV systems, providing more thorough surface cure
Enhances adhesion to metals, glass, and polymer substrates, and improves abrasion resistance

Applications

Suitable for various mercury lamp UV systems, also suitable for LED UV, LED UV ink, LED UV adhesive system, UV nail polish.

Recommended Usage

Not recommended for use alone; can be used in combination with other photoinitiators to adjust the balance between surface and depth curing

Recommended addition level: 0.5~3%

Users are advised to determine the optimal addition level through preliminary testing

Note: Store protected from light; exposure to light may cause gelling

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 5031D has a good curing promotion effect on all kinds of UV, which makes UV curing more thorough, higher conversion rate, better bottom and surface curing effect, and improves wear resistance and scratch resistance.