Lencolo®
蓝柯路

TDS

2025/10/01

Lencolo 5027 Photoinitiator 907

CAS#：71868-10-5

Description

Lencolo 5027PI-027 is a highly efficient photoinitiator for UV-curable systems, providing long-term yellowing resistance and extended storage stability. It is specifically designed for pigmented UV-curable coatings, inks, and colored adhesive systems, and can be used in combination with photoinitiators such as 184 or ITX and other initiators. It can be used in pigmented ink systems, paper, metal and plastic varnishes and electronic inks.

Technical Data

Molecular Formula	$C_{15}H_{21}NO_2S$
Molecule Weight (g/mol)	279.4
Compostition	2-Methyl-1-(4-methylthio)phenyl-2-morpholinopropyl-1-one
Appearance	White crystal powder
Melting Point (℃)	72 - 76
Purity (%)	≥ 98
Volatile Content (%)	≤ 0.5
Ash Content (%)	≤ 0.1
Absorption Peak (nm)	231、307

Applications

UV curable varnishes and inks for paper varnishes, metal and plastic surfaces. The uniquely high absorption properties of this photoinitiator make it ideal for use in UV-curable inks and pigmented coatings.

Recommended Usage

Addition amount: 2 ~ 6%
It is recommended that users determine the optimal dosage through preliminary testing before use.

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 per bag

Tips:Lencolo 5027 is especially suitable for colored curing systems, especially blue and green; proper addition ensures more thorough curing