

Lencolo 5007 Photoinitiator TPO

CAS#: 75980-60-8

Description

**Lencolo 5007** Because of its wide absorption range, TPO has an effective absorption peak of 350-400 nm and has been absorbed to about 420 nm. Its absorption peak is longer than that of conventional initiator. After irradiation, two free radicals, benzoyl and phosphatidyl, can be formed, which can initiate photopolymerization. Therefore, the photocuring speed of TPO is fast, and it also has photobleaching effect. It has low volatility and is suitable for water-based applications.

Technical data

Molecular formula	C22H21PO2
Molecule weight(g/mol)	418
Ingredients	2,4,6(trimethylbenzoyl)diphenylphosphine oxide (TPO)
Appearance	Yellow powder
Melting point (°C)	91-94
Purity (%)	≥97
Acid value	≤4
Volatile content (%)	≤0.5
Ash(%)	≤0.1
Absorption peak (nm)	295、380、393

Applications

This product is mostly used in white systems and can be used in light-curing coatings, printing inks, UV-curing adhesives, optical fiber coatings, photoresists, photopolymerizing printing plates, stereolithographic resins, composite coating materials, dental fillings, etc.

Usage

Solubility (20 °C, g/100g)  
Solvent or monomer: Acetone HDMAP Dichloromethane TPGDA  
Solubility : 50 70 60 15  
Addition: 0.5-4%.  
Users are advised to determine the optimum dosage by experiment before use.

Storage

To prevent the product from polymerization and gelling, please keep it sealed and away from heat and light. Recommended storage temperature is not higher than 30°C. Unused products must be sealed and stored in a timely manner and cannot be stored in the open. Safe storage time is 6 months at room temperature( 25°C) and under ventilation. 20KG/bag

**Tips: Lencolo 5007 is one of the most commonly used photoinitiators. It has fast curing speed, bleaching effect, and good deep curing of thick films.**

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.