



Uyracure-504

oligomer · monomer · photoinitiator · additive

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Uyracure 504 photoinitiator

Apparent	pale yellow liquid
MW	202
Absorption wavelength	405 nm
Viscosity at 25°C	180 mPa.s

Uyracure 504 photoinitiator was developed for 405 nm long-wavelength light sources. Its unique molecular structure design enables excellent deep-penetration curing capabilities, making it suitable for uniform curing of thick coatings, three-dimensional structural parts, and composite materials. Its low-viscosity liquid form facilitates mixing with high-solids systems, making it valuable in 3D printing photosensitive resins, multilayer PCB solder resist inks, and automotive photocurable coatings. By precisely controlling photoreactivity, this product can achieve full cross-linking within complex geometries, avoiding the curing gradient defects of traditional initiators.

It also features excellent thermal stability and a low yellowing index, making it particularly suitable for high-end manufacturing scenarios with stringent requirements for curing depth and material durability.

Recommended dosage 1%-5%