TPO Photoinitiator (Diphenyl(2,4,6-trimethylbenzoyl)phosphine Oxide)

TPO Photoinitiator (Diphenyl(2,4,6-trimethylbenzoyl)phosphine Oxide) · RS-TPO · CAS 75980-60-8 · Technical Data Sheet · RawSource · rawsource.com/product/tpo-photoinitiator/

CAS NO.	PRODUCT CODE	PRODUCT TYPE
75980-60-8	RS-TPO	Photoinitiator (Type I)

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO) is a Type I photoinitiator supplied as a yellow to off-white crystal or fine powder. It is used in UV-curable coatings, adhesives, inks and printing plates. It is compatible with unsaturated polyesters, acrylate monomers and oligomers.

DISTRIBUTED BY
RawSource Inc.
515 E Las Olas Blvd, Suite 1301, Fort Lauderdale, FL 33301
305-307-6515 · solutions@rawsource.com · rawsource.com
Product page: rawsource.com/product/tpo-photoinitiator/
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GENERAL INFORMATION

Chemical name	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
Molecular weight	348.37
Molecular formula	$C_{22}H_{21}O_2P$

TYPICAL PROPERTIES

UV Absorption peaks, nm	365, 385, 400

Typical values are representative of the product and are not specifications.

Typically used in unsaturated polyester acrylate-based systems in concentrations of 0.5 % to 5 % by weight.

RELEASE SPECIFICATION

PARAMETER	SPECIFICATION	TYPICAL
Appearance	Yellow to off-white crystal or fine Powder	Yellow crystal
Assay	99 % min	99.61 %
Melting point	91.0 – 95.0 °C	92.3 – 93.6 °C
Volatiles	0.20 % max	0.03 %
Acid Value	0.50 mg KOH/g max	0.1809 mg KOH/g

Each lot is released against this specification. Lot-specific results are reported on the Certificate of Analysis that ships with every delivery.

KEY FEATURES

- Good shelf stability
- Anti-yellowing
- Fast curing speed
- Thorough cure of coatings
- Suited to thick layers of photo curing systems

APPLICATIONS

- UV-curable coatings
- UV-curable adhesives
- UV-curable inks
- UV-curable printing plates

Applications are those stated for the product. Confirm suitability for each formulation by trials.

The information in this Technical Data Sheet is provided for technical evaluation and is believed to be accurate as of the issue date. Typical values are representative and do not constitute a warranty. Binding specifications are those stated on the lot-specific Certificate of Analysis and in the sales contract. Users should verify suitability for their own process and regulatory requirements. Refer to the Safety Data Sheet before handling. Questions: solutions@rawsource.com.