

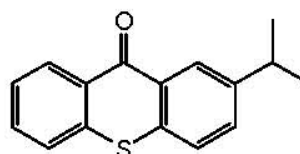
PHOTOINITIATOR

DOUBLECURE[®] ITX

Photosensitizer for UV Radiation Curing Systems

General Doublecure[®] ITX is most widely used photosensitizer for pigmented UV coating systems. Its use in combination with a photoactivator such as Doublecure[®] EPD should give satisfied results for most of UV applications.

Properties Structure:



Chemical Name : Isopropylthioxanthone
 CAS No. : 5495-84-1
 EINECS No. : 226-827-9(2-isomer)
 Molecular Formula : C₁₆H₁₄OS
 Molecular Weight : 254.3

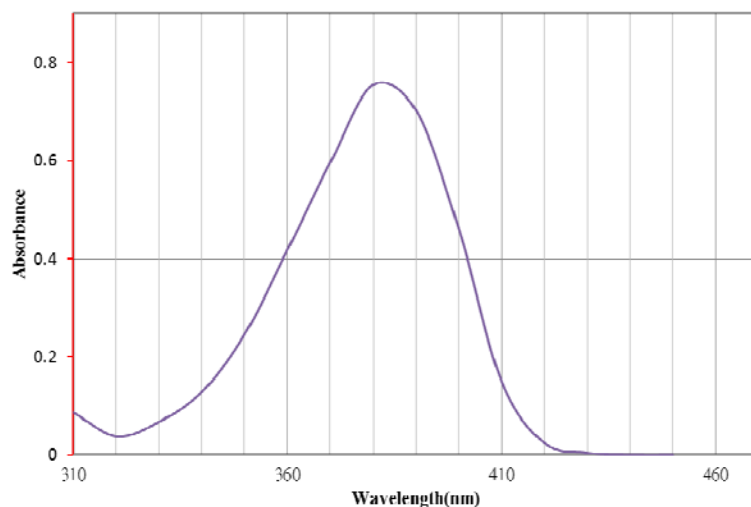
Physical Data Appearance : Pale yellow powder
 Odor : Very Faint

Solubility (% w/w @ 20°C)

Water	: <0.01	Ethyl acetate	: 20
Acetone	: 25	1,6-Hexanediol diacrylate	: 27
Methanol	: 2.5	Trimethylolpropane triacrylate	: 10
Toluene	: 20	Propyleneglycol diacrylate	: 22
MMA	: 50	1,2-Dichloroethane	: >50

Specification Appearance : Pale yellow powder
 Assay (HPLC) : 98 % min.
 Melting point : 72-75°C
 Volatiles : 0.5 % max.

Application Doublecure[®] ITX is the first choice for pigmented UV curing system to enhance curing properties. The usage rates of Doublecure[®] ITX vary according to the composition of the system, source of light, line speed, and film thickness but usually lie between 0.25 % to 3 % w/w together with photoactivators at 2 - 5 % w/w. Applications include printing ink, decorative coating for metal cans, solder mask, and pressure sensitive sheet.

UV Spectrum**UV Spectrum of Doublecure ITX**

Storage

Do not expose to direct sunlight. Store at room temperature and below 50 °C.
Avoid contact with alkaline additives and water.
Must be stored in closed containers in dark dry conditions.

HS Code

2934.99

**Health and Safety
Information**

Doublecure[®] ITX has low acute toxicity.

Inflammability:

Flash point : 216 °C

Decomposition temp. : >200 °C

For detailed information please consult the corresponding material safety data sheets.

DOUBLE BOND CHEMICAL
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Printed in Taiwan

The information and recommendations contained herein are based on the current state of our knowledge. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.

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