



UV BLOCKER

Ultraviolet Light Blocker for Epoxy Resins

General **UV Blocker** is a liquid UV absorber specifically designed for the protection of epoxy resins against the damage from UV light radiation. Characterized by its good solvent solubility, better resin compatibility and less volatility. **UV Blocker** provides a degree of stabilization that is significantly better than those of other commercialized UV absorbers based on benzotriazole or benzophenone.

Composition Active Ingredients:

1. UV absorber based on dialkylaminobenzoic ester
2. Hinder Amine Light Stabilizer

Physical Data

Appearance	:	yellow liquid
Odor	:	Faint
Boiling Point	:	> 300 °C
Freezing point	:	< 10 °C
Viscosity	:	1000~3000 cps@25 °C
Extinction coefficient	:	ca. 13,200
Specific gravity	:	1.10~1.13 g/cm ³ @ 25 °C

Solubility (g in 100 ml solvent)

Ethyl acetate	:	> 50
Ethanol	:	> 50
Methyl ethyl ketone	:	> 50
PEG (M _n =400)	:	> 50
Water	:	Nil

Specification

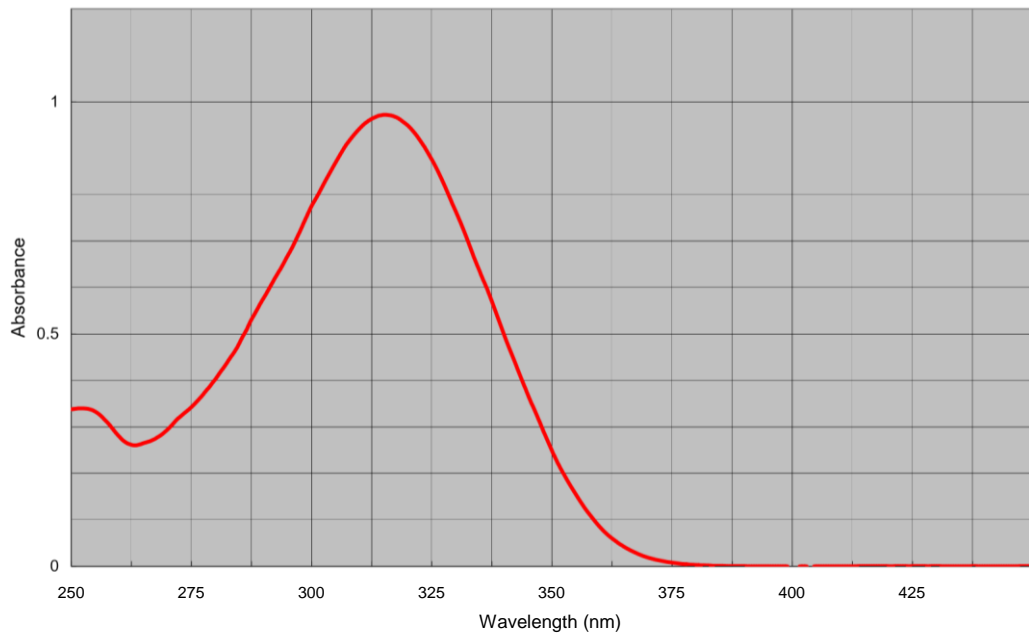
Appearance	:	Light yellow liquid
Color (Gardner)	:	6.0 max.
Clarity in toluene	:	Clear solution (5g/100ml)

Application **UV Blocker** is most suitable for the protection of polymers due to its excellent solubility in resin and its non-yellowing property during baking stage. Therefore, **UV Blocker** is exclusively designed for

1. Epoxy resin.
2. Epoxy acrylate
3. Thermoset acrylic enamels.

Dosage: About 0.2 % - 2.0 % of **UV Blocker** is recommended for the protection of epoxy resin.

UV Spectrum



Illustration

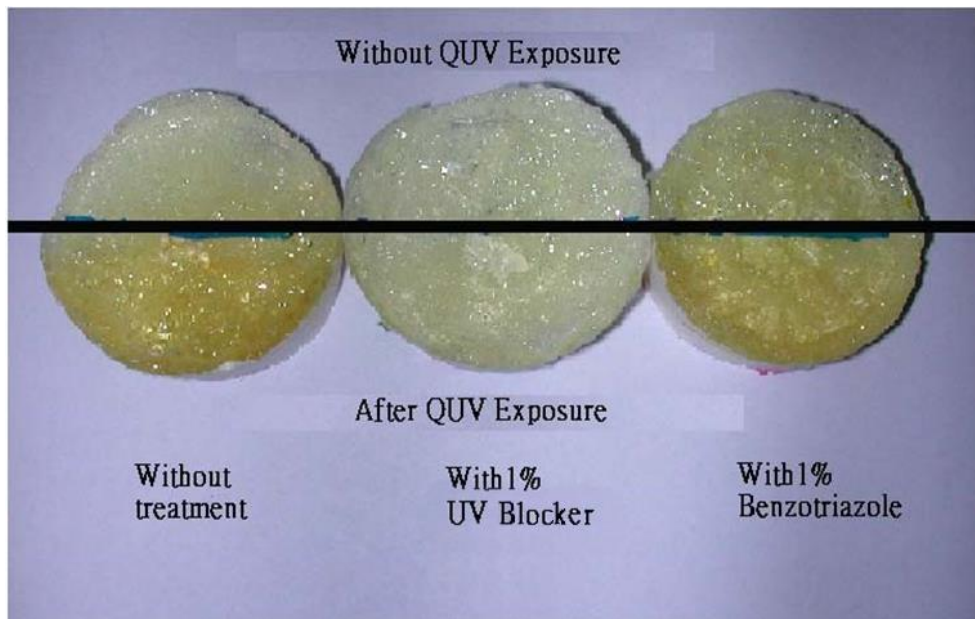


Fig. The yellowing effect of QUV exposure on epoxy with different pretreatment

After each 200 hrs Exposure

Formulation: Epoxy (anhydride hardener)+ 1%UV Absorber (or without) ,

Exposure: QUV 313, Temp: 50°C

*** Out door test for 2 months has similar performance**

Test result	Blank	TP-10	EPL	Benzotriazole UVA
Heat resist	F	O	F	X
UV resist	X	F	O	X

O: Good, F: Fair, X: Yellowing



Storage	Must be stored in closed containers and in dark dry conditions.
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Packaging	30 kg net t/plastic drum
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HS Code	2921 4200
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Health and Safety Information	Toxicity:		
	ORL-RAT LD ₅₀	:	> 1,000 mg/kg
	Inflammability:		
	Flash point:	:	> 100° C
	Decomposition temp.	:	> 150° C

Important Notice **UV Blocker** tends to crystallize at low temperature. The crystallization is natural occurrence. To use the product, heat up to 60 – 70° C. The quality and characteristics of product are not affected after being heated up.

To prevent crystallization, it is recommended to store **UV Blocker** at room temperature (25° C).

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