

**M Chemical GUARD DOGâ„¢ UV328 Benzotriazole UV Absorber**

Category : Other Engineering Material , Additive/Filler for Polymer

**Material Notes:**

GUARD DOGâ„¢ UV328 light stabilizer is a derivative of Benzotriazole that has exceptionally strong and broad-range UV absorption properties throughout the UV spectrum specially designed for polymers and coatings. Due to its extended UV absorption capability, this product provides excellent protection for plastics, top coats and various light sensitive substrates. It is highly recommended for thermoset plastics, organic substrates and coatings that function as weathering. This product may also be used in conjunction with other light stabilizers of HALS class to give plastics, coatings and paints superior protection against gloss reduction, cracking, color change, blistering, chalking and delamination. It is only recommended for room temperature and low temperature cured formulations such as air-dried alkyd or moisture cured PU based systems.

**Applications:** Guard Dogâ„¢ UV328 light stabilizer is recommended for applications such as automotive coatings, industrial coatings or wood stains. It is also recommended as a stabilizer for styrene homo- and copolymers, acrylic polymers, unsaturated polyesters, PVC, polyolefins, polyurethanes, polyacetals, polyvinylbutyral, elastomers and adhesives. The recommended dosage for plastics is less than 1% and for coatings between 1 - 3% depending on substrate and performance requirements.

**Performance Benefits:** Strong and broad absorption of UV light in 270 - 380 nm range with low color contribution High degree of inherent light stability and has low volatility Excellent compatibility with polymers and exceptional UV protection for styrene, acrylic, PU, polyolefins, unsaturated polyesters, PVB and engineering polymers.

**Typical Properties:** Pale yellow free flowing powder

**Solubility (g/100g @ 25Â°C):** MEK 14, Butanol 2.5, Ethylene Glycol 4, Butyl Acetate 15, Xylene 34, Mineral Spirit 14, Ethyl Acetate 20

Order this product through the following link:  
[http://www.lookpolymers.com/polymer\\_M-Chemical-GUARD-DOG-UV328-Benzotriazole-UV-Absorber.php](http://www.lookpolymers.com/polymer_M-Chemical-GUARD-DOG-UV328-Benzotriazole-UV-Absorber.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.910 g/cc	0.910 g/cc	
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
Volatiles	<= 0.50 %	<= 0.50 %	
Solubility in Water	<= 0.010 %	<= 0.010 %	
Molecular Weight	351.5 g/mol	351.5 g/mol	

Thermal Properties	Metric	English	Comments
Melting Point	80.0 - 88.0 Â°C	176 - 190 Â°F	

Descriptive Properties	Value	Comments
Assay (%)	>99	by HPLC
CAS Number	25973-55-1	
Molecular Formula	C22H29N3O	
Name	2-(2'-Hydroxy-3', 5'-di-t-amylphenyl) benzotriazole	

Descriptive Properties	Value	Comments
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