

M Chemical GUARD DOGâ„¸ UV360 Light Absorber

Category : Other Engineering Material , Additive/Filler for Polymer

Material Notes:

GUARD DOGâ„¸ UV360 UV absorber is a low volatile dimeric 2-hydroxy benzotriazole based UV absorber which is highly effective in a wide range of polymers and resin compositions. Applications: Extremely effective in acrylics, alkene polymers, polycarbonates and polyamides. It can be used in combination with phenolic and phosphate antioxidants and HALS to optimize performance in outdoor use. Performance Benefits: Strong absorption of UV radiation in the 300 - 400 nm range and has a high degree of photostability and excellent thermal properties. Low initial color and low volatility during high processing temperatures and has good extraction resistance. Helpful in preventing plate-out on molds and die-lip build-up Typical Properties: Free flowing pale yellow powder, Color of 10% Toluene solution: Clear, Solubility@ 20Â°C (g/100m; solvent): Water

Order this product through the following link:

http://www.lookpolymers.com/polymer_M-Chemical-GUARD-DOG-UV360-Light-Absorber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc @Temperature 20.0 Â°C	1.22 g/cc @Temperature 68.0 Â°F	
Volatiles	<= 0.50 %	<= 0.50 %	
Molecular Weight	658.87 g/mol	658.87 g/mol	
Ash	<= 0.10 %	<= 0.10 %	

Thermal Properties	Metric	English	Comments
Melting Point	194 - 198 Â°C	381 - 388 Â°F	

Optical Properties	Metric	English	Comments
UV Transmittance	>= 97 % @Thickness 0.450 mm	>= 97 % @Thickness 0.0177 in	
	>= 98 % @Thickness 0.500 mm	>= 98 % @Thickness 0.0197 in	

Descriptive Properties	Value	Comments
CAS Number	103597-45-1	
Molecular Formula	C ₄₁ H ₅₀ N ₆ O ₂	

Name 2- 2'-Methylenebis [6-(2H-benzotriazole-2-yl)-4-(1, 1, 3, 3-tetramethylbutyl) phenol]

Descriptive Properties	Value	Comments
Recommended Dosage	0.15 - 0.60%	depending upon the substrate and performance requirements

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