

M Chemical GUARD DOGâ,,ç UV5411 Benzotriazole UV Absorber, Powder and LD Pellet

Category : Other Engineering Material , Additive/Filler for Polymer

Material Notes:

GUARD DOGâ,,ç UV5411 light stabilizer is a derivative of Benzotriazole that has exceptionally strong and broad-range UV absorption properties throughout the UV spectrum. It is highly recommended for thermoset plastics, organic substrates and coatings that function as ultraviolet screens for photosensitive substrates. It helps to preserve the original appearance and physical integrity of polymeric systems during outdoor weathering. Applications: Extremely effective in unsaturated polyesters (0.2 - 0.5 wt%), PVC, styrenics, acrylics, polycarbonates, PU (0.2 - 1 wt%), polyamide (0.2 - 0.5 wt%), PVB, PMMA, PE and elastomers. Performance Benefits: Strong and broad absorption of UV light in 300 - 400 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 PC and engineering polymers. Typical Properties: White crystalline free flowing powder λ MAX, nm: 346 Solubility (g/100g @ 25°C): Benzene 65, n-Butyl Acetate 245, Methylene Chloride 70.9, Styrenics 49.7, Xylene 50

Order this product through the following link:

http://www.lookpolymers.com/polymer_M-Chemical-GUARD-DOG-UV5411-Benzotriazole-UV-Absorber-Powder-and-LD-Pellet.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc @Temperature 25.0 °C	1.18 g/cc @Temperature 77.0 °F	
Molecular Weight	323 g/mol	323 g/mol	
Absorption Coefficient	<= 49.3	<= 49.3	10 mg UV/l of Toluene

Thermal Properties	Metric	English	Comments
Melting Point	103 - 105 °C	217 - 221 °F	

Descriptive Properties	Value	Comments
CAS Number	3147-75-9	
Molecular Formula	C ₂₀ H ₂₆ N ₃ O	
Name	2-(2'-Hydroxy-5'-octylphenyl) benzotriazole	
Recommended Dosage	0.1 - 1.0%	depending upon the substrate and performance requirements

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