

M Chemical GUARD DOGâ„¸ UV622 HALS Light Stabilizer

Category : Other Engineering Material , Additive/Filler for Polymer

Material Notes:

GUARD DOGâ„¸ UV662 is a solid, polymeric type, free radical scavenger hindered amine light stabilizer that is used to protect a wide range of polymers against degradation caused by exposure to UV radiation. It is used in applications that demand low volatility and minimal surface migration. It provides light stability to thick and thin sections and contributes significantly to the long term heat stability of polyolefins and tackifier resins, It has a low melting range and has excellent thermal stability. It is compatible with a wide range of resin systems and is un-extractable in aqueous conditions. This product typically demonstrates reduced interaction with co-additives such as pigments or other stabilizers and can easily be dispersed. GUARD DOGâ„¸ UV662 shows strong synergistic performance when used in combination with other GUARD DOGâ„¸ UV Absorber, HALS and Antioxidant products. Applications: GUARD DOGâ„¸ UV662 is extremely effective in PE, PP, SAN, ASA, SBS, PS, polyurethanes, polyamides, unsaturated polyesters, and polyacetals including plastisols, elastomers, adhesives, sealants and films. Typical Properties: 67, Xylene - 8TGA analysis (10 mg@10Â°C/min) under nitrogen atmosphere shows = 1% weight loss at 250Â°C, = 3% at 300Â°C and = 8.5% at 325Â°C. volatile loss at 105Â°C for 2 hours = 0.5%

Order this product through the following link:

http://www.lookpolymers.com/polymer_M-Chemical-GUARD-DOG-UV622-HALS-Light-Stabilizer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc @Temperature 35.0 Â°C	1.22 g/cc @Temperature 95.0 Â°F	
Bulk Density	0.570 g/cc	0.0206 lb/inÂ³	
Molecular Weight	>= 2000 g/mol	>= 2000 g/mol	
Ash	<= 0.10 %	<= 0.10 %	

Thermal Properties	Metric	English	Comments
Softening Point	55.0 - 85.0 Â°C	131 - 185 Â°F	
Flash Point	>= 250 Â°C	>= 482 Â°F	

Optical Properties	Metric	English	Comments
UV Transmittance	>= 97 % @Thickness 0.425 mm	>= 97 % @Thickness 0.0167 in	10g/100ml of Methyl Benzene
	>= 99 % @Thickness 0.500 mm	>= 99 % @Thickness 0.0197 in	10g/100ml of Methyl Benzene

Component Elements Properties	Metric	English	Comments

Nitrogen N Component Elements Properties	4.9 % Metric	4.9 % English	Comments
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Descriptive Properties	Value	Comments
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CAS Number	65447-77-0	
Molecular Formula	C ₂₈ H ₅₂ O ₄ N ₂	
Name	Poly-(N-beta-hydroxyethyl-2,2,6,6-tetramethyl-4-hydroxy-piperidyl-succinate)	
Recommended Dosage	0.10 - 1.20%	depending upon the substrate and performance requirements
	0.30 - 0.60%	for PE agricultural films

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