Technical Information Plastic Additives



Tinuvin[®] 329

Benzotriazole UV Absorber

August 2019 Data Sheet Second Edition			TI/EVF 1003 e / Page 1 of 3	
® = registered trademark of BASF SE				
Characterization	Tinuvin® 329 benzotriazole organic subst) is an ultraviolet light ab class, which is used as a rates.	sorber (UVA) of the hydroxyphenyl light stabilizer for plastics and other	
Chemical name	2Phenol, 2-(2	H-benzotriazol-2-yl)-4-(1,1	,3,3-tetramethylbutyl)	
CAS number	3147-75-9			
Chemical formula				
Molecular weight	323 g/mol			
Applications	Tinuvin® 329 organic subst	Tinuvin $^{\ensuremath{\mathbb{R}}}$ 329 is an effective light stabilizer for a variety of plastics and other organic substrates.		
Features/benefits	Tinuvin® 329 protects polymers from UV radiation, helping to preserve the original appearance and physical integrity of molded articles, films, sheets, and fibers during outdoor weathering.			
Product forms	code Appearance	Tinuvin® 329 Slightly yellow powder	Tinuvin ®329 FL Slightly yellow, rodlike granules	
Guidelines for use	The use level substrate and can be used stabilizers (hi thiosynergists additives. The stabilizers is p observed. Pe other additive	s of Tinuvin® 329 range be performance requirements alone or in combination ndered amines), antioxida a, hydroxylamine's), and e use of Tinuvin® 329 in co particularly noteworthy in th rformance data of Tinuving s are available in selected	etween 0.1 and 1.0 %, depending on s of the final application. The product with other additives such as light ants (hindered phenols, phosphites, other functional stabilizers and ombination with hindered amine light at a synergistic performance is often ® 329 alone or in combination with substrates.	

Melting range Flashpoint Density (20 °C) Vapor pressure (25°C)	103 – 105 °C > 150 °C 1.18 g/ml 1 E-5 Pa
Solubility (20°C)	g/100 g solution
Acetone	9
Benzene	32
Chloroform	37
Cyclohexane	15
Ethyl acetate	15
n-Hexane	6
Methanol	0.6
Water	<0.01

Volatility

Temperature (°C)		
180		
200		
220		

TGA on pure substance; heating rate 20°C/min in air Weight loss (%) 1.0 2.0

Absorbance spectrum (10 mg/l, Chloroform)



5.0

BASF Schweiz AG Performance Chemicals Plastic Additives Hardmattstrasse 434 5082 Kaisten Switzerland www.basf.com

Note

Tinuvin® 329 exhibits strong absorbance in the 300 – 400 nm region and minimal absorbance in the visible region (> 400 nm) of the spectrum. The absorption maxima are at 301 nm and 343 nm (\Box = 15910 l/ mol \cdot cm) in chloroform solution.

Handling & Safety Detailed information on handling and any precautions to be observed in the use of the product(s) described in this leaflet can be found in our relevant safety data sheet.

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