Technical Information

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Plastic Additives

TI/EVF 1008 e March 2015

Supersedes edition dated March 2011



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Tinuvin[®] 1577

conventional benzotriazole UV absorbers.

Phenol, 2-(4,6-Diphenyl-1,3,5-triazin-2-yl)-5-hexyloxy

Low volatile hydroxyphenyl triazine UV absorber

Tinuvin 1577 is an ultraviolet light absorber (UVA) of the hydroxyphenyl triazine class exhibiting very low volatility and good compatibility with a variety of polymers, co-additives and resin compositions. Tinuvin 1577 allows polycarbonates and polyesters to achieve a higher resistance to weathering than

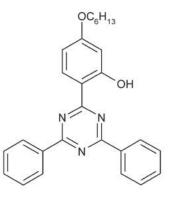
Characterization

Chemical name

CAS number

Chemical formula

147315-50-2



Molecular weight

Applications

Features/benefits

425 g/mol

Tinuvin 1577 applications include polyalkene terephthalates and naphthalates, linear and branched polycarbonates, modified polyphenylene ether compounds, and various high performance plastics.

The use of Tinuvin 1577 is indicated in polymer blends & alloys, such as PC/ABS, PC/PBT, PPE/IPS, PPE/PA and copolymers as well as in reinforced, filled and/or flame retarded compounds, which can be transparent, translucent and/or pigmented. Its very low tendency to chelate allows Tinuvin 1577 formulations in polymers containing catalyst residues.

Tinuvin 1577 is particularly suitable for processing and aging conditions where high loadings, low volatility and good compatibility are required. Such requirements are especially critical for complex moldings, fibers, plain and corrugated sheets, thin films, co-injected or co-extruded semi-finished parts.

Tinuvin 1577

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	Depending on equipment, proc Tinuvin 1577 allows direct two- of a neutral third top layer to pr by the thin, highly UVA loaded actitivity allows the use of lowe absorbers. This may be of parti high concentration applications	-layer co-extrusion of sh revent sublimation and/ cap layer. Moreover, its or concentrations than w icular importance when	neets without the use or deposits generated very high UV screen vith traditional UV
Product forms	Tinuvin 1577 ED yellowis	Tinuvin 1577 ED yellowish, free-flowing granules	
Guidelines for use	Tinuvin 1577 (0.2–6% by weight) can be readily incorporated into the poly- mer by using conventional techniques, e.g. powder, solution, or melt blend- ing. Tinuvin 1577 can be used alone or in combination with other functional additives such as antioxidants (hindered phenols, phosphites) and HALS light stabilizers, where often a synergistic performance is observed. Exten- sive performance data are available in many of the substrates listed above.		
Physical Properties	Melting Point Flashpoint Vapor Pressure (25 °C) Specific gravity (at 20 °C) Bulk density Angle of repose	148 °C not applicable 9 E-10 Pa 1.10 g/ml 0.58 g/ml 36 °	
	Solubility (20 °C) Acetone Chloroform Ethanol Ethyl acetate n-Hexane Methylene chloride Toluene	g/100 g solution 0.3 25 0.02 0.7 0.07 17 5	
	Volatility (pure substance; TGA Weight Loss % 1.0 5.0 10.0	A, heating rate 20° C/m Temperature °C 300 335 353	in in air)
Absorbance spectrum (10 mg/l, Chloroform)	1 0.8 0.6 0.4 0.2 0 250 300 350 Wavelength (400 450 500 (nm)	Tinuvin 1577 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 274 nm and 341 nm (ε = 22'000 l/ mol·cm) in chloro- form solution.
Handling & Safety	Tinuvin 1577 exhibits a very lov any abnormal problems in its h	andling or general use.	
	Detailed information on handlin use of the product(s) described health and safety information sl	in this leaflet can be fo	

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March 2011

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