Technical Information

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TI/EVF 1001 e August 2010 **Plastic Additives**

Tinuvin[®] 326

Benzotriazole UV Absorber

Characterization

Chemical name

CAS number

Chemical formula

Molecular weight

Applications

Features/benefits

Product forms

Phenol, 2-(5-chloro-2H-benzotriazol-2-yl)-6-(1,1-dimethylethyl)-4-methyl

3896-11-5

HC

and other organic substrates.

316 g/mol

Tinuvin 326 is especially suited for polyolefins.

Tinuvin 326 has a wide range of indirect food approvals in polyolefins. Its low volatility and high resistance to thermal degradation make it particularly useful in polyolefin compounding and molding processes.

Tinuvin 326 is an ultraviolet light absorber (UVA) of the hydroxyphenyl

benzotriazole class, which imparts outstanding light stability to plastics

The Chemical Company

Tinuvin 326Slightly yellow powderTinuvin 326 FLSlightly yellow flakes

Recommended concentrations are:

 polypropylene
 0.1 % -0.5 %

 polyethylene
 0.1 % -0.4 %

Tinuvin 326 should be used in combination with a HALS light stabilizer system. Performance data for Tinuvin 326 are available in several substrates and applications.

Physical Properties

Melting Range Flashpoint Specific Gravity (20 °C) Vapor Pressure (20 °C)

Solubility (20 °C) Acetone Chloroform	g/100 g solution 1 11
Ethanol Ethyl acetate	0.1
n-Hexane Methanol	0.1
Methylene chloride Toluene	9

Volatility (pure substance; TGA, heating rate 20 °C/min in air)Weight Loss %Temperature °C1.01802.01955.0220

138-141 °C

1.32 g/ml

7.5 E-7 Pa

238 °C (DIN 51584)



Tinuvin 326 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 312 nm and 353 nm (ε = 15600 l/ mol · cm) in chloroform solution.

(10 mg/l, Chloroform)

Absorbance spectrum

Handling & Safety

Note

Tinuvin 326 exhibits a very low order of oral toxicity and does not present any abnormal problems in its handling or general use.

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 health and safety information sheet.

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