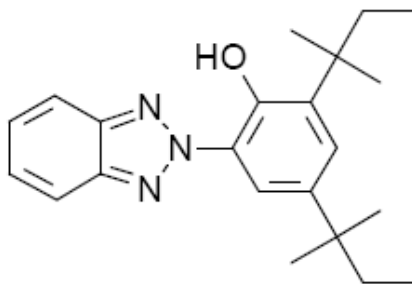


Tinuvin[®] 328

Product Description	Tinuvin 328 is a UV absorber of the hydroxyphenyl-benzotriazole class designed for coatings. Because of its extended UV absorption, Tinuvin [®] 328 provides efficient protection to coatings and light sensitive substrates.
Key Features & Benefits	<ul style="list-style-type: none">- Hydroxyphenyl-benzotriazole UVA with excellent spectral coverage in the UV A & B regions- Good photopermanence- Improves exterior durability of ambient and low temperature cured coatings
Chemical Structure	2-(2H-benzotriazol-2-yl)-4, 6-ditertpentylphenol



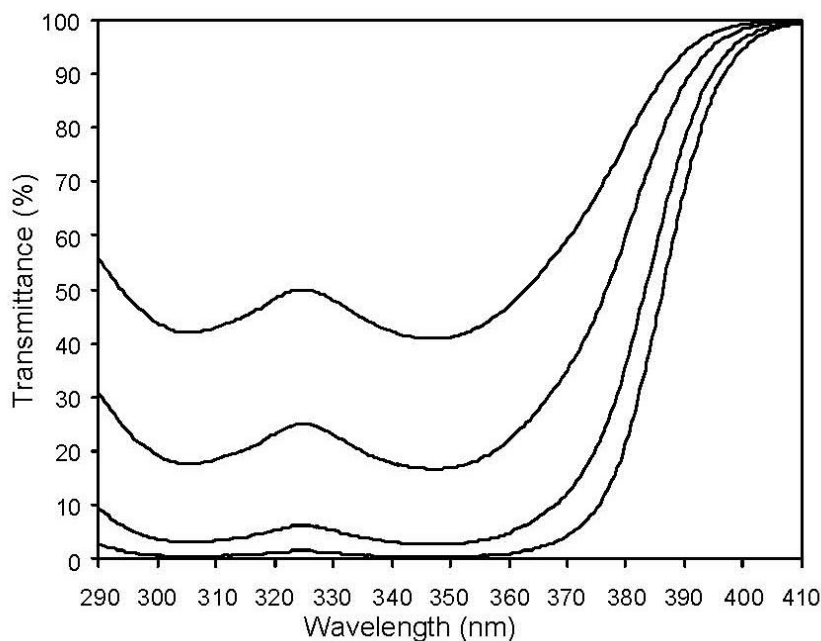
Properties

Typical Properties	CAS No:	25973 – 55 – 1
	Appearance	slightly yellow powder
	Molecular weight	351.5
	<u>Solubility (g/100 g solution) at 20 °C:</u>	
	butylcarbitol	3.5
	butanol	2.5
	butyl acetate	15
	ethylglycol	4
	1-methoxypropylacetate-2	10
	methylethylketone	14
	Solvesso 100 ¹	25
	Solvesso 150 ¹	25
	xylene	34
	water	< 0.01

¹ trademark of Esso

These typical values should not be interpreted as specifications.

Transmittance Spectrum
(in toluene, cell thickness 1 cm)



Top Line: 0.001% Tinuvin 328, corresponds to 0.25% in a 40 μ film
Second Line: 0.002% Tinuvin 328, corresponds to 0.50% in a 40 μ film
Third Line: 0.004% Tinuvin 328, corresponds to 1.0% in a 40 μ film
Bottom Line: 0.006% Tinuvin 328, corresponds to 1.5% in a 40 μ film

Applications

Tinuvin 328 is recommended for applications such as:

- Automotive coatings
- Industrial coatings
- Trade sale paints such as wood stains or do-it-yourself paints
- Adhesives

Tinuvin 328 may be used in combination with a light stabilizer of the sterically hindered amine or aminoether class (HALS) such as Tinuvin 292, Tinuvin 123, or Tinuvin 249. These combinations give coatings superior protection against gloss reduction, cracking, blistering, delamination and color change. Tinuvin 328 is only recommended for ambient and low temperature cured systems, i.e. air-drying alkyd-based systems.

The amount of Tinuvin 328 required for optimum performance should be determined in laboratory trials covering a concentration range.

Recommend Concentrations	Tinuvin 328	1.0 – 3.0 %
	+ Tinuvin 249, Tinuvin 292 or Tinuvin 123	0.5 – 2.0 %

(concentrations are based on weight percent binder solids)

Safety

General

The usual safety precautions when handling chemicals must be observed. These include the measure described in Federal, State and Local health and safety regulations, thorough ventilation of the workplace, good skin care, and wearing of protective goggles.

Safety Data Sheet

All safety information is provided in the Safety Data Sheet for Tinuvin 328.

Storage

Please refer to the "Handling and Storage of Polymer Dispersions" brochure.

Important

The descriptions, designs, and data contained herein are presented for your guidance only. Because there are many factors under your control which may affect processing or application/use it is necessary for you to make appropriate tests to determine whether the product is suitable for your particular purpose prior to use. **NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, OR DATA MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, DATA OR DESIGNS PROVIDED BE PRESUMED TO BE A PART OF OUR TERMS AND CONDITIONS OF SALE.** Further, you expressly understand and agree that the descriptions, designs, and data furnished by BASF hereunder are given gratis and BASF assumes no obligation or liability for same or results obtained from use thereof, all such being given to you and accepted by you at your risk.

Tinuvin is a registered trademark of BASF Group.

© BASF Corporation, 2019



BASF Corporation is fully committed to the Responsible Care® initiative in the USA, Canada, and Mexico. For more information on Responsible Care® go to:
U.S.: www.basf.us/responsiblecare_usa
Canada: www.basf.us/responsiblecare_canada
México: www.basf.us/responsiblecare_mexico

BASF Corporation
Dispersions and Resins
11501 Steele Creek Road
Charlotte, North Carolina 28273
Phone: (800) 251 – 0612
Email: CustCare-Charlotte@basf.com
Email: edtech-info@basf.com
www.basf.us/dpsolutions