DR. J. PHARMACHEM (INDIA)

POLYMER	*UV-ABSORBERS & STABILISERS*

UVA 328 — Technical Datasheet

Product Information: UVA 328 is an ultraviolet light absorber (UVA). It imparts outstanding light stability to plastics and other organic substrates.

Chemical Name	2-(2-HYDROXY-3,5-DIPENRYL-PHENYL) BENZOTRIAZOLE		
Grade Name	UVA 328		
CAS No.	25973-55-1		
EINECS No.	247-384-8		
Molecular Formula	C22H29N3O		
Synonyms	• UV ABSORBER 328 • 2-(2H-BENZOTRIAZOL-2-YL)-4, 6-DITERTPENTYLPHENOL • 2-(2-HYDROXY-3,5-DIPENRYL-PHENYL) BENZOTRIAZOLE		
TEST	**SPECIFICATION**		**METHOD**
Appearance	Form: Powder Colour: Slightly yellow		Visual
Purity	> 98 %		By GC
Melting Range	79 - 88 °C		Melting point apparatus (capillary tube method)
Volatile Content	< 0.5 %		Oven drying
Moisture Content	< 0.5 %		KF Titration
Transmittance at 460 nm at 500 nm (2 % solutio	> 94 % 97 % Min. 97 % Min.		Colorimetric spectrophotometer
Solubility at 20 °C	Solvent	Solubility (gm/100ml)	Visual
	Acetone	6	
	Benzene	39	
	Chloroform	44	
	Cyclohexane	15	
	Ethyl acetate	16	
	Methanol	0.4	
	Methylene chloride	56	
	n-Hexane	16	

722/AB/15, Nirmal, Laxmi Park Colony, Navi Peth 411030, www.jpharmachem.com
Tel. 020-24530071 Email:sales@jpharmachem.com

	Water	< 0.01

Product Applications:

1. UVA 328 is a highly effective light stabilizer for a variety of plastics and other organic substrates.
2. It is used for the stabilization of styrene homo and copolymers, acrylic polymers, unsaturated polyesters, polyvinylchloride, polyolefins, polyurethanes, polyacetals, polyvinylbutyral, elastomers and adhesives.
3. It is used in combination with phenolic and phosphite antioxidants and HALS to optimize performance in outdoor use.

Product Benifits:

1. UVA 328 is strong UV absorption, low initial colour, good solubility in plasticizers and monomers and moderately low volatility.
2. It protects polymers and organic pigments from UV radiation, help to preserve the original appearance and physical integrity of moulded articles, films, sheets, and fibres during outdoor weathering.
3. It is readily soluble in a wide range of organic solvents.

Product Dosage: We strongly recommend testing of your own system under the actual conditions of processing and end-use prior to full scale testing. Exact loading must be determined by compositions of the specific polymer systems. In general the dosage recommended for long-term thermal stability in polymers is 0.10 - 1.0 %. However individual dosage depends on substrate and is application specific. Some reference dosage is as follows.

Polymer Details	Suggested dosage
Pressure-s sensitive adhesive in food contact	< 0.10 - 1 %

Product Handling & safety:
Please refer to our product MSDS for specific instructions on handling this product.

Product Registration:UVA 328 approved for use in food contact polymer as per the following chapter headings.

Title: 21 - Food And Drugs
Chapter: I - Food And Drug Administration, Department Of Health And Human Services
Subchapter: B - Food For Human Consumption
Part: 175 - Indirect Food Additives: Adhesives And Component Of Coatings.
Subpart: B - Substances For Use Only As Components Of Adhesives
Section: 175.105 - Adhesives

Product Disclaimer
Important : This statement supersedes any Buyers documents. Seller makes no representation, Warranty, Express or Implied, Including of Merchantability of Fitness for a particular use, or purpose.

No statement herein is to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seler be liable for incidental, consequential or indirect damanges for alleges negligence breach of warranty, strict liability, and tort or contact rising in connectoin with product(s). Buyers sole remedy and Sellers sole Liability for any claims shall be buyers purchase price. Data and results are based on controlled or lab work and must be confirmed by the buyer by testing for its indented conditions of use.

This product is not been tested for, and is therefore not recommended for, use for which prolonged contact with mucous membranes, abraded skin, or blood is intended, or fur use for which implantation within human body is intended.