DR. J. PHARMACHEM (INDIA)

POLYMER	*UV-ABSORBERS & STABILISERS*

UV-2908 — Technical Datasheet

Product Information: POLYMER ADD-UVA 2908 is benzoate-type light stabilizer that functions by scavenging free radicals formed during the photo degradation of plastic materials.

Chemical Name	HEXADECYL 3,5-BIS-TERT-BUTYL-4-HYDROXYBENZOATE		
Grade Name	UV-2908		
CAS No.	67845-93-6		
EINECS No.	267-342-2		
Molecular Formula	C31H54O3		
Synonyms	• Hexadecyl 3,5-bis-tert-butyl-4-hydroxybenzoat • Hexadecyl 3,5-di-t-butyl-4-hydroxybenzoate		
TEST	**SPECIFICATION**		**METHOD**
Appearance	Form: Powder Colour: White		Visual
Purity	98.0 % Min.		By HPLC
Melting Range	55 - 65 °C		Melting point apparatus (capillary tube method)
Volatile Content	0.5 % Max.		Oven drying
Ash Content	0.5 % Max		Open crucible
Transmittance at 460 nm at 500 nm	97 % Min. 99 % Min.		Colorimetric spectrophotometer
Solubility at 25 °C	Solvent	Solubility (gm/100ml)	Visual
	Acetone	56.8	
	Dichloromethane	>100	
	Methanol	2.8	
	Toluene	80	
	Water	>100	

Product Applications:

1. POLYMER ADD-UVA 2908 is used for the protection of polyolefins, polycarbonate and the systems containing flame retardants and thioester.
2. It is used in combination with phenolic & phosphite antioxidants and HALS to optimize performance in outdoor use - synergizes well with UV absorbers and antioxidants which function as hydro peroxide decomposers.
3. It is an excellent ultraviolet light stabilizer for olefins, particularly pigmented opaque formulations, for applications such as pipes, drums, sheeting, marine and garden.

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Product Benifits:

1. POLYMER ADD-UVA 2908 provides antioxidant activity both during thermal processing and in moderate elevated temperatures due to radical scavenging mechanism.
2. It has excellent compatibility with polyolefins, resistant to extraction and migration.
3. It improves the stability of polyolefins during processing and end use at moderate temperatures.

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 0.1 - 0. 5%. However individual dosage depends on substrate and is application specific. Some reference dosage is as follows.

Polymer Details	**Suggested dosage**
Olefin polymer in food contact	0.5 % Max.

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

Product Registration:POLYMER ADD-UVA 2908 is 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: 178 - Indirect Food Additives: Adjuvants, Production Aids, And Sanitizers
Subpart: C - Antioxidants And Stabilizers
Section: 178.2010 - Antioxidants And /Or Stabilizers For Polymers

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.

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