



POLYMER	UV-ABSORBERS & STABILISERS
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UVA 234	Technical Datasheet
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Product Information: POLYMER ADD-UVA 234 is a high molecular weight ultraviolet light absorber (UVA). It belongs to the family of substituted benzotriazoles which protect against ultraviolet radiation.

Chemical Name	UVA 234
Grade Name	UVA 234
CAS No.	70321-86-7
EINECS No.	274-570-6
Molecular Formula	C30H29N3O
Synonyms	<ul style="list-style-type: none">• 2-(2H-Benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl)phenol• 2-[2-Hydroxy-3,5-di(1,1-dimethylbenzyl)phenyl]2H-benzotriazole• 2-[2'-Hydroxy-3',5'-Bis(-Dimethyl Benzyl)-Phenyl-Benzotriazole

TEST	SPECIFICATION		METHOD
Appearance	Form: Powder Colour: Slightly yellow		Visual
Purity	99 % Min.		By HPLC
Melting Range	137 - 141 °C		Melting point apparatus (capillary tube method)
Loss on Drying	0.5 % Max.		Oven drying
Ash Content	0.5 % Max.		Open crucible
Specific Gravity	1.22 g/ml		Pycnometer
Solubility at 20 °C	Solvent	Solubility (gm/100ml)	Visual
	Acetone	2	
	Chloroform	35	
	Cyclohexane	5	
	Ethanol	0.3	
	Ethyl acetate	4	
	Methanol	<0.1	
	Methylene chloride	34	
	n-Hexane	0.6	
	Toluene	20	
	Water	<0.01	

Product Applications:



1. POLYMER ADD-UVA 234 is highly effective for polymers processed at high temperatures such as polycarbonates, polyalkylene terephthalates, polyacetals, polyamides, polyphenylene sulphide.
2. It is recommended for use in polymers which are exposed to extreme environmental stresses.
3. It is used in moulded articles, films, sheets and fibre.

Product Benefits:

1. POLYMER ADD-UVA 234 features low volatility, exceptional light absorbing characteristics and good compatibility in various substrates.
2. It exhibits very low order oral toxicity and does not present any abnormal problems in its handling and general use.
3. It is high resistance to thermal degradation.

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 0.15 - 0.60 %. However individual dosage depends on substrate and is application specific. Some reference dosages are as follows. As per chapter sec. 178.2010 of us FDA

Polymer Details	Suggested dosage
Polyethylene phthalate polymers.(177.1630)	0.3 % Max.
Polycarbonate resins.(177.1580)	0.5 % Max.

Product Handling & safety:

Please refer to our product MSDS for specific instructions on handling this product.

Product Registration: POLYMER ADD-UVA 234 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.