



POLYMER	ANTIOXIDANT TERTIARY
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AO DLTDP	Technical Datasheet
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Product Information: POLYMER ADD-AO DLTDP is a thioester synergist which is particularly effective as a long-term heat aging stabilizer when used in conjunction with primary antioxidants. It is a nonvolatile stabilizer. It is particularly suitable for protection of plastics, rubber and synthetic fiber against deterioration, discolouration and rancidity.

Chemical Name	DILAURYL THIODIPROPIONATE		
Grade Name	AO DLTDP		
CAS No.	123-28-4		
EINECS No.	204-614-1		
Molecular Formula	C30H58O4S		
Synonyms	<ul style="list-style-type: none">• 3,3'-Thiodipropionic Acid Didodecyl Ester• Dilauryl 3,3'-thiodipropionate• Propionic acid, 3,3'-thiodi-,didodecyl ester (6Cl,8Cl)		
TEST	SPECIFICATION	METHOD	
Appearance	Form: Crystalline Flake Colour: White	Visual	
Purity	90 % Min. 97 % Min.	By GC By Titration (w/w)	
Melting Range	39 - 42 °C	Melting point apparatus (open capillary tube method)	
Acid Value	1 Max.	Acidimetric Titration	
Specific Gravity at 80 °C	0.896 g/cm ³	Pycnometer	
Solubility at 20 °C	Solvent	Solubility (gm/100ml)	Visual
	Acetone	55 %	
	Ethanol	4 %	
	Ethyl Acetate	60 %	
	Glycerin	Insoluble	
	N-Heptane	52 %	
	Toluene	65 %	
	Water	Insoluble	

Product Applications:

1. POLYMER ADD-AO DLTDP is used as a stabilizer for polyolefin and polyethylene.
2. It improves the weather and heat resistance of the products.
3. It protects them against loss of hardness or deterioration in high-temperature processes.

**Product Benefits:**

1. POLYMER ADD-AO DLTDP provides excellent protection in high temperature polyolefin applications.
2. It is readily soluble in a wide range of organic solvents.
3. It is thioester synergistic performance which helps in regenerating the primary antioxidant.

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. 1. The recommended use level is 0.25 - 1.0 % of polymers weight. 2. The limit is 0.005 % in food wrappings. 3. POLYMER ADD - AO DLTDP has been used along with primary antioxidant (0.02 - 0.3 %) in as 1.4 %.

Polymer Details**Suggested dosage****Product Handling & safety:**

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

Product Registration:An antioxidant in food packaging materials and as a preservative in edible fats and oils when used in accordance with FDA regulations 175.105, 175.300, 177.1010, 181.24.An antioxidant in polymers intended for food packaging under FDA regulations 178.

Title:

Chapter:

Subchapter:

Part:

Subpart:

Section:

Product Registration:An antioxidant in polymers intended for food packaging under FDA regulations 178.2010.

Title:

Chapter:

Subchapter:

Part:

Subpart:

Section:

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.