

IRGANOX 1010

Technical Datasheet

Product Information: Irganox 1010 – a sterically hindered phenolic antioxidant – is a highly effective, non-discoloring stabilizer for organic substrates such as plastics, synthetic fibers, elastomers, adhesives, waxes, oils and fats. It protects these substrates against thermo-oxidative degradation.

Chemical Name	PENTAERYTHRITOL TETRAKIS(3-(3,5-DI-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONATE)	
Grade Name	IRGANOX 1010	
CAS No.	6683-19-8	
EINECS No.	229-722-6	
Molecular Formula	C73H108O12	
Synonyms	<ul style="list-style-type: none"> TETRAKIS[METHYLENE-3-(3',5'-DI-TERT-BUTYL-4'-HYDROXYPHENYL)PROPIONATE]METHANE ANTIOXIDANT 1010 	
TEST	SPECIFICATION	METHOD
Appearance	White powder or granule	Visual
Melting point	110-125° C	Melting point apparatus
Volatizing	Max 0.5%	Weight loss (105°C)
Clarity of solution	Clear solution	Visual
Colour of solution at 425 nm	min 95%	UV-VIS
Colour of solution at 500 nm	min 97%	UV-VIS
Ash	max 0.10%	
Assay	min 94%	HPLC

Product Applications:

1. Pentaerythritol Tetrakis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate) is an antioxidant used in food packaging to prevent the spoilage and increase the shelf life of food products.
2. The product can be used in combination with other additives such as costabilizers (e. g. thioethers, phosphites, phosphonites), light stabilizers and other functional stabilizers.
3. Its use is recommended for the processing of polymers such as polyacetals, polyamides and polyurethanes, polyesters, PVC etc.

Product Benefits:

1. Irganox 1010 has good compatibility.
2. High resistance to extraction and low volatility.
3. It is odorless and tasteless

Product Handling & safety:

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

Polymer Add Pte. Ltd.

ISO 9001:2008 Certified Company



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

Title: TITLE 21--FOOD AND DRUGS

Chapter: CHAPTER I--FOOD AND DRUG ADMINISTRATION DEPARTMENT OF HEALTH AND HUMAN SERVICES

Subchapter: SUBCHAPTER B--FOOD FOR HUMAN CONSUMPTION (CONTINUED)

Part: PART 178 -- INDIRECT FOOD ADDITIVES: ADJUVANTS, PRODUCTION AIDS, AND SANITIZERS

Subpart: Subpart C--Antioxidants and Stabilizers

Section: Sec. 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 Seller be liable for incidental, consequential or indirect damages 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.