Technical Information

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TI/EVK 1080 e August 2011 **Plastic Additives**

We create chemistry

® = registered trademark of BASF SE

Characterization

Chemical name

CAS number

Chemical formula

Molecular weight

Applications

Features/benefits

Product forms

Guidelines for use

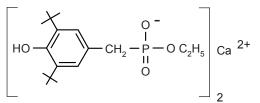
Irganox[®] 1425

Multifunctional phenolic primary antioxidant for processing and long-term thermal stabilization

Irganox 1425 is a high molecular weight phenolic antioxidant containing phosphorus. It is a highly efficient, non discoloring stabilizer for organic substrates such as plastics, synthetic fibers, elastomers, adhesives, waxes, oils and fars. It protects these substrates against thermo-oxidative degradation. Irganox 1425 is odorless, stable to light and has excellent color retention. It has good compatibility with most substrates and high resistance to extraction.

(1,1-Di-tert.-butyl)-4-hydroxyphenyl)methyl)ethylphosphonate)

65140-91-2



Irganox 1425

695 g/mol

Irganox 1425 imparts processing and good long-term thermal stability to polyolefins. Irganox 1425 is also an effective stabilizer for polyesters, crosslinked elastomers (e.g. NBR), specialty adhesives, natural and synthetic tackifier resins. Irganox 1425 is used as esterification catalyst for the preparation of rosin esters.

Irganox 1425 is especially recommended for applications requiring improved extraction resistance, low volatility, excellent color and color stability and superior gas-fading resistance.

Irganox 1425 white, free flowing powder

The concentrations of Irganox 1425 to be used strongly depend on enduse requirements. The recommended concentration is 0.05–0.25 % Irganox 1425. Irganox 1425 can be used alone or in combinations with other Irganox, Irgafos, Chimassorb, Uvinul or Tinuvin stabilizers and costabilizers.

Physical properties	Melting range Flashpoint Specific gravity (20 °C) Vapor pressure (20 °C)	>260 °C >150 °C 1.21 g/ml <1E-2 Pa
	Solubility (20 °C) Acetone Chloroform Dichloromethane Ethanol Ethyl acetate n-Hexane Methanol Toluene Water	g/100 g solution 0.02 0.01 0.01 <0.1 0.03 0.02 8 ~ 0.5 0.24
Health & Safety	Detailed information on handling and any precautions to be observed in the use of the product(s) described in this leaflet can be found in our relevant health and safety information sheet.	
Note	The descriptions, designs, data and information contained herein are presented in good faith, and are based on BASF's current knowledge and experience. They are provided for guidance only, and do not constitute the agreed contrac- tual quality of the product or a part of BASF's terms and conditions of sale. Because many factors may affect processing or application/use of the product, BASF recommends that the reader carry out its own investigations and tests to determine the suitability of a product for its particular purpose prior to use. It is the responsibility of the recipient of product to ensure that any proprietary rights and existing laws and legislation are observed. No warranties of any kind, either expressed or implied, including, but not limited to, warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth herein, or that the products, descriptions, designs, data or information may be used without infringing the intellectual property rights of others. Any descriptions, designs, data and information given in this publication may change without prior information. The descriptions, designs, data and information furnished by BASF hereunder are given gratis and BASF assumes no obligation or liability for the descriptions, designs, data or information given or results obtained, all such being given and accepted at the reader's risk.	

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