Technical Information

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Plastic Additives



® = registered trademark of BASF SE

Irgafos[®] 126

A High Performance Organo-phosphite Processing Stabilizer

Irgafos 126 is a high performance organo-phosphite processing stabilizer, which protects polymers from thermo-oxidative degradation during processing by decomposing hydroperoxides to form non-radical, non-reactive products

Bis-(2,4-di-tert.-butylphenol)pentaerythritol diphosphite

Chemical name

Characterization

CAS number

Chemical formula

26741-53-7



Molecular weight

Applications

Features/benefits

604 g/mol

Irgafos 126 provides outstanding processing stability in a variety of applications and substrates, including polyethylene, polypropylene and ethylenevinylacetate copolymers. Irgafos 126 can also be used in other polymers such as engineering plastics, styrene homo- and copolymers, polyurethanes, elastomers, adhesives and other organic substrates. Irgafos 126 is particularly effective when used in combination with primary antioxidants of the Irganox range.

Irgafos 126 is a high performance solid organo-phosphite which protects polymers from degradation during the processing steps (compounding, pelletizing, fabrication, recycling).

- Protects polymers from molecular weight changes (e.g. chain scission or crosslinking)
- Prevents polymer discoloration due to degradation
- High performance at low concentration levels
- Synergistic performance when used in combination with primary antioxidants from the Irganox range.
- Can be used in combination with light stabilizers from the Tinuvin and Chimasorb range.

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Product forms	Irgafos 126	white powder
Guidelines for use	In the recommended applications, the concentration levels for Irgafos 126 range typically between 0.05% and 0.15% depending on substrate and processing conditions. The optimum level is application specific. Performance data of Irgafos 126 in various organic polymers and applications are available upon request.	
Physical Properties	Melting point Acid number Bulk density Powder	≥160 °C ≤0.5 mg KOH/g 500−600 g/l
	Solubility (25 °C) Acetone Heptane Hexane Methanol THF Toluene Water	g/100 g solution 8.5 4.5 4.8 1.9 35 35.7 insoluble
Health & Safety	Irgafos 126 exhibits a very low order of oral toxicity and does not present any abnormal problems in its handling or general use. 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 furnished by BASF hereunder are given gratis and BASF assumes no obligation or liability for the descriptions, designs, data and information given or results obtained, all such being given and accepted at the reader's risk. September 2010	