

® = registered trademark of BASF SE

Irgafos® 126

A High Performance Organo-phosphite Processing Stabilizer

Characterization

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

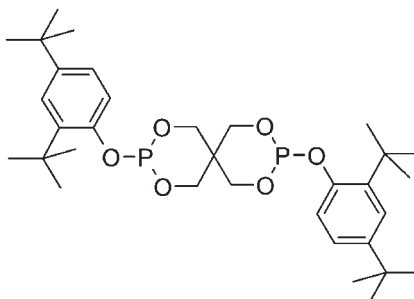
Chemical name

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

CAS number

26741-53-7

Chemical formula



Molecular weight

604 g/mol

Applications

Irgafos 126 provides outstanding processing stability in a variety of applications and substrates, including polyethylene, polypropylene and ethylene-vinylacetate 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.

Features/benefits

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.

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	≥ 160 °C
Acid number	≤ 0.5 mg KOH/g
Bulk density Powder	500–600 g/l

Solubility (25 °C)	g/100 g solution
Acetone	8.5
Heptane	4.5
Hexane	4.8
Methanol	1.9
THF	35
Toluene	35.7
Water	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 contractual 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.

September 2010

BASF Schweiz AG
Plastic Additives
4057 Basel, Switzerland
www.performancechemicals.basf.com