

Irgafos[®] 126

Product Description

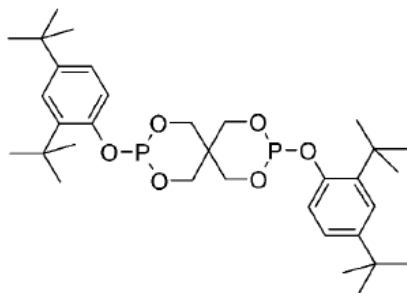
Irgafos 126 is a high performance organo-phosphite processing stabilizer.

Key Features & Benefits

- High performance at low concentration levels
- Protects polymers from thermo-oxidative degradation during processing
- Protects polymers from molecular weight changes (e.g. chain scission or crosslinking)
- Prevents discoloration due to degradation
- Synergistic performance when used in combination with primary antioxidants from the Irganox[®] portfolio
- Can be used in combination with light stabilizers from the Tinuvin[®], Uvinul[®] and Chimassorb[®] portfolio

Chemical Composition

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



Properties

Typical Properties

Appearance		white powder
CAS number		26741-53-7
Molecular weight	g/mol	604
Melting point	°C	≥ 160
Acid number	mg KOH/g	≤ 0.5
Density (bulk)	g/l	500 – 600

Solubility at 25°C (g/100 g solution)

Acetone	8.5
Heptane	4.5
n-Hexane	4.8
Methanol	1.9
THF	35
Toluene	35.7
Water	insoluble

These typical values should not be interpreted as specifications.

Application

Irgafos 126 is a high performance organo-phosphite processing stabilizer that protects polymers from thermo-oxidative degradation during processing (compounding, pelletizing, fabrication, recycling) by decomposing hydroperoxides to form non-radical, non-reactive products.

Irgafos 126 is recommended for applications such as:

- Solvent-based coatings
- Hot-melt adhesives
- Powder coatings

Irgafos 126 is particularly effective when used in combination with primary antioxidants in the Irganox portfolio.

Recommended Concentrations The amount of Irgafos 126 required for optimum performance should be determined in trials covering a variety of concentration ranges. Concentrations up to several percent may be used depending on the substrate, processing conditions, and requirements of the end application.

Typical concentrations between 0.05 – 0.15% by weight of Irgafos 126 provides thermo-oxidative stability during processing.

Safety

General

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State, and Local health and safety regulations, thorough ventilation of the workplace, good skin care, and wearing of protective goggles.

Safety Data Sheet

All safety information is provided in the Safety Data Sheet for Irgafos 126.

Storage

Please refer to the “Handling and Storage of Polymer Dispersions” brochure.

Important

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