We create chemistry

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Irganox® B 215

Synergistic processing and long-term thermal stabilizer system

Characterization

Irganox B 215 – a processing and long-term thermal stabilizer system – is a synergistic blend of Irgafos® 168 and Irganox 1010.

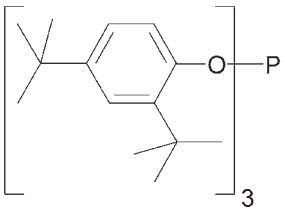
Chemical name

Irgafos 168; Irganox 1010

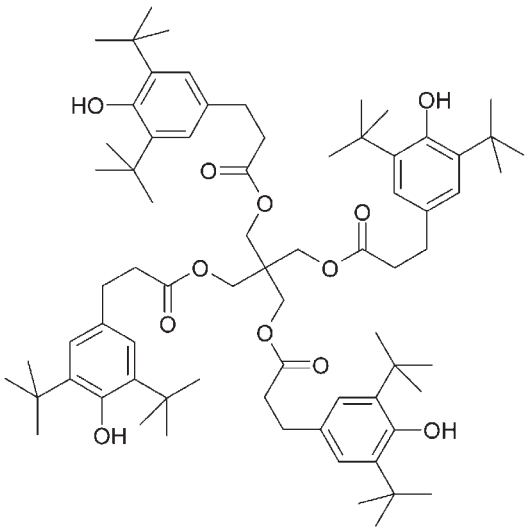
CAS number

Preparation

Chemical formula



Irgafos 168



Irganox 1010

Molecular weight

Irgafos 168	646.9 g/mol
Irganox 1010	1178 g/mol

Applications

Irganox B 215 is used in polyolefins and olefin-copolymers such as polyethylene, polypropylene, polybutene and ethylene-vinylacetate copolymers. The blend can also be used in other polymers such as engineering plastics, styrene homo- and copolymers, polyurethanes, elastomers, adhesives, and other organic substrates. Irganox B 215 can be used in combination with light stabilizers of the Uvinul®, Tinuvin® and Chimassorb® range.

Features/benefits

Irganox B 215 is a convenient blend addressing a range of stabilization needs. In the recommended applications Irganox B 215 provides significant benefits, such as

- long-term thermal stability
- low color formation
- maintenance of original melt flow.

Irgafos 168 – an organophosphite of low volatility and particularly resistance to hydrolysis – protects during processing organic polymers which are prone to oxidation. Irganox 1010 – a hindered phenolic antioxidant – contributes synergistically to the stabilization of the polymer during processing and provides long-term thermal stability by preventing thermo-oxidative degradation during service life. Performance can be improved in synergistic combinations with other BASF additives (e. g. thioethers). Blends of Irganox 1010 and Irgafos 168 with Hydroxylamine FS042 are particularly effective.

Product forms

Irganox B 215	white, free-flowing powder
Irganox B 215 FF	white, free-flowing granules

Guidelines for use

In polyolefins, the concentration levels for Irganox B 215 range typically between 0.1 % and 0.25 %, depending on substrate and processing conditions. The optimum level is application specific. Extensive performance data of Irganox B 215 in various organic polymers and applications are available upon request.

Physical properties

Bulk density	
Powder	530 – 630 g/l
FF	480 – 570 g/l

Health & Safety

Irganox B 215 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

September 2010

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