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# Irganox® B 225

## Synergistic processing and long-term thermal stabilizer system

### Characterization

Irganox B 225 – a processing and long-term thermal stabilizer system – is a synergistic blend of Irgafos® 168 and Irganox 1010.

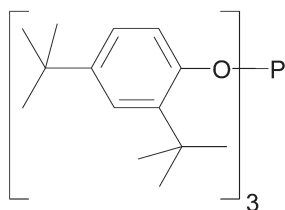
### Chemical name

Irgafos 168; Irganox 1010

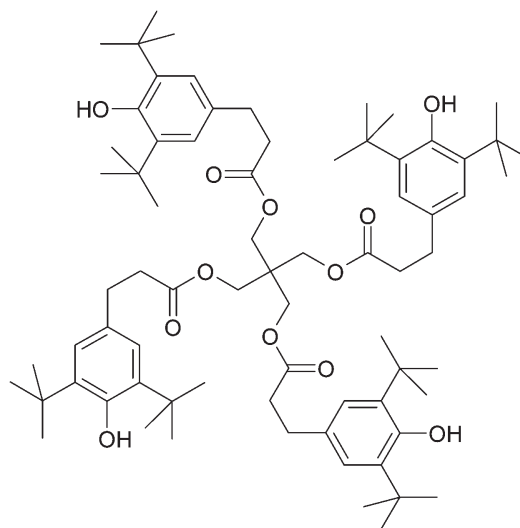
### CAS number

Preparation

### Chemical formula



Irgafos 168



Irganox 1010

### Molecular weight

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

### Applications

Irganox B 225 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 225 can be used in combination with light stabilizers of the Uvinul®, Tinuvin® and Chimassorb® range.

**Features/benefits**

Irganox B 225 is a convenient blend addressing a range of stabilization needs. The relatively high phenolic antioxidant content of Irganox B 225 addresses applications requiring more long-term thermal stability. In the recommended applications Irganox B 225 provides significant benefits, such as

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

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 225	white, free-flowing powder
Irganox B 225 FF	white, free-flowing granules

**Guidelines for use**

In polyolefins, the concentration levels for Irganox B 225 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 225 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 225 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**

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