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# Irganox® B 561

## Synergistic processing and long-term thermal stabilizer system

### Characterization

Irganox B 561 – a processing and long-term thermal stabilizer system – is a synergistic blend of Irgafos® 168 and Irganox 1010.

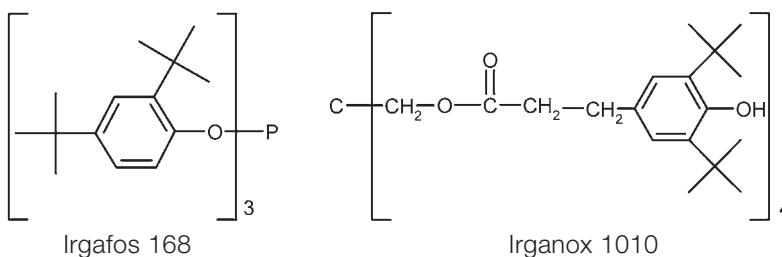
### Chemical name

Irgafos 168; Irganox 1010

### CAS number

Preparation

### Chemical formula



### Molecular weight

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

### Applications

Irganox B 561 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 e. g. butyl, polyisoprene (synthetic and natural), adhesives, and other organic substrates. Irganox B 561 can be used in combination with light stabilizers of the BASF Uvinul®, Tinuvin® and Chimassorb® range.

### Features/benefits

Irganox B 561 is a convenient blend addressing a range of stabilization needs. The relatively high phosphite content of Irganox B 561 addresses applications with demanding processing conditions. In the recommended applications Irganox B 561 provides significant benefits, such as

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

Irgafos 168 – an organophosphite of low volatility and particularly resistant 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 561	white, free-flowing powder
Irganox B 561 FF	white, free-flowing granules

**Physical properties**

Bulk density	
Powder	480–570 g/l

**Guidelines for use**

In polyolefins, the concentration levels for Irganox B 561 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 561 in various organic polymers and applications are available upon request.

**Health & Safety**

Irgastab B 561 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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