

# Formulation Additives

## Technical Data Sheet

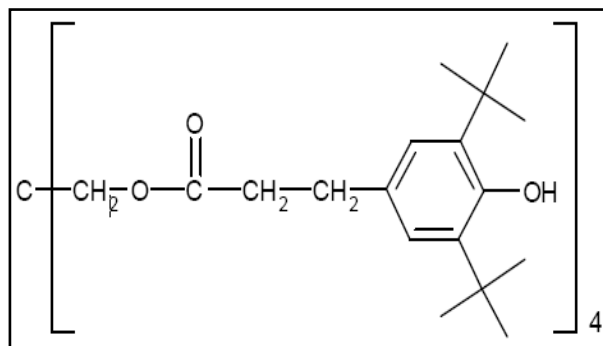
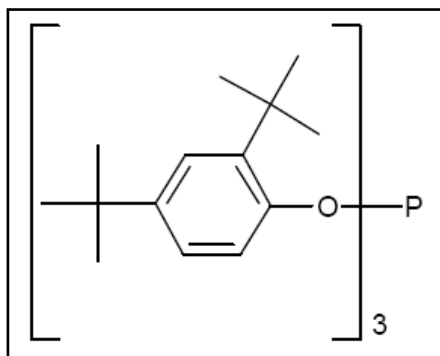
# Irganox<sup>®</sup> B 225



Irganox<sup>®</sup> B 225 is a processing and long-term thermal stabilizer system, and is a syner-gistic blend of Irgafos<sup>®</sup> 168 and Irganox<sup>®</sup> 1010.

### Chemical Nature

50 % Irgafos<sup>®</sup> 168 & 50 % Irganox<sup>®</sup> 1010



### Properties

#### Product specifications

Molecular Weight	g/mol	646.9 & 1178
Appearance		Powder: white free-flowing powder FF: white, free- flowing granules
Bulk Density	g/l	Powder 530 – 630 FF 480 – 570

### Applications

Irganox<sup>®</sup> 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<sup>®</sup> B 225 can be used in combination with light stabilizers of the Tinuvin<sup>®</sup> and Chimassorb<sup>®</sup> range.

#### Features/benefits

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

- Maintenance of original melt flow
- Low color formation
- Long-term-thermal stability

Irgafos<sup>®</sup> 168 - an organophosphite of low volatility and particularly resistant to hydrolysis – protects during processing organic polymers which are prone to oxidation. Irganox<sup>®</sup> 1010 - a hindered phenolic antioxidant - contributes synergistically to the polymer's stabilization 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 Ciba additives (e.g. thioethers). Blends of Irganox<sup>®</sup> 1010 and Irgafos<sup>®</sup> 168 with Hydroxylamine FS042 are particularly effective.

In polyolefins, the concentration levels for Irganox<sup>®</sup> 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<sup>®</sup> B 225 in various organic polymers and applications are available upon request.

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## 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.

### Material Safety Data Sheet

All safety information is provided in the Material Safety Data Sheet for Irganox<sup>®</sup> B 225.

Irganox<sup>®</sup> B 225 requires no special safety measures, provided the usual precautions for handling chemicals are observed. Avoid dust formation and ignition sources. For more detailed information please refer to the material safety data sheet.

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