## **Technical Information**

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TI/EVK 1036 e September 2010 **Plastic Additives** 

## We create chemistry

® = registered trademark of BASF SE

## Irganox<sup>®</sup> B 225

## Synergistic processing and long-term thermal stabilizer system

Characterization

**Chemical name** 

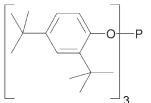
**CAS** number

**Chemical formula** 

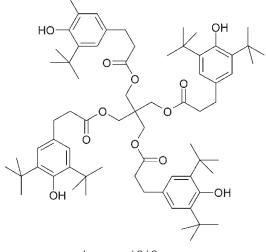
Irganox B 225 – a processing and long-term thermal stabilizer system – is a synergistic blend of Irgafos<sup>®</sup> 168 and Irganox 1010.

Irgafos 168; Irganox 1010

Preparation



Irgafos 168



Irganox 1010

Molecular weight

Applications

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

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<sup>®</sup>, Tinuvin<sup>®</sup> and Chimassorb<sup>®</sup> 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	
	<ul> <li>long-term thermal stabili</li> <li>maintenance of original</li> <li>low color formation</li> </ul>	
	to hydrolysis – protects du to oxidation. Irganox 1010 synergistically to the stabil vides long-term thermal sta during service life. Perform with other BASF additives	osphite of low volatility and particularly resistance ring processing organic polymers which are prone – a hindered phenolic antioxidant - contributes ization of the polymer during processing and pro- ability by preventing thermo-oxidative degradation nance can be improved in synergistic combinations (e.g. thioethers). Blends of Irganox 1010 and umine FS042 are particularly effective.
Product forms		white, free-flowing powder white, free-flowing granules
Guidelines for use	between 0.1 % and 0.25 % tions. The optimum level is	ation levels for Irganox B 225 range typically depending on substrate and processing condi- application specific. Extensive performance data of ganic polymers and applications are available upon
Physical properties		530-630 g/l 480-570 g/l
Health & Safety		ery low order of oral toxicity and does not present its handling or general use.
		ndling and any precautions to be observed in the ribed in this leaflet can be found in our relevant on sheet.
Note	The descriptions, designs, data and information contained herein are presented in good faith, and are based on BASF's current knowledge and experience. They are provided for guidance only, and do not constitute the agreed contrac- tual quality of the product or a part of BASF's terms and conditions of sale. Because many factors may affect processing or application/use of the product, BASF recommends that the reader carry out its own investigations and tests to determine the suitability of a product for its particular purpose prior to use. It is the responsibility of the recipient of product to ensure that any proprietary rights and existing laws and legislation are observed. No warranties of any kind, either expressed or implied, including, but not limited to, warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth herein, or that the products, descriptions, designs, data or information furnished by BASF hereunder are given gratis and BASF assumes no obligation or liability for the descriptions, designs, data or information given or results obtained, all such being given and accepted at the reader's risk. September 2010	
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