Technical Information

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Plastic Additives



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Irganox® B 1171

Antioxidant blend for processing and long-term thermal stabilization

Characterization

Chemical name

CAS number

Chemical formula

Molecular weight

Applications

Features/benefits

Product forms

Guidelines for use

Irganox B 1171 is a blend of a hindered phenolic antioxidant and a phosphite useful for the stabilization of polyamides and other polymers.

Irgafos® 168; Irganox 1098

Preparation

Irgafos 168

Irgafos 168 Irganox 1098 HO HO (CH₂)₆ N OH Irganox 1098

646.9 g/mol 637 g/mol

Irganox B 1171 is especially suited for the stabilization of polyamide molded parts, fibers, and films.

In polyamides, Irganox B 1171 provides excellent processing and long-term thermal stability, excellent initial resin color, and also improves light stability. Irganox B 1171 is superior to copper-based systems used as stabilizers for polyamides with respect to color and resistance to extraction.

Irganox B 1171

white, free-flowing powder

Irganox B 1171 is recommended for use in polyamide molded articles, fibers, and films at concentrations of 0.05% – 1.0% depending on the polymer type, method of incorporation, application, and degree of stability required. The product can be used in combination with other additives, such as costabilizers (e. g. other phosphites, thioethers, hydroxylamines), light stabilizers (e. g. UV-absorbers, hindered amines), and other functional stabilizers. Performance data for Irganox B 1171 alone and in combination with other additives in a variety of polyamides are available on request.

Physical properties

Melting range > 156 °C
Flashpoint > 150 °C
Vapor pressure (20 °C) < 1 E-2 Pa

Health & Safety

Irganox B 1171 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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