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Irgastab® FS 210

Phenol-free processing stabilizer system

Characterization

Irgastab FS 210 is a system composed of a high molecular weight hydroxylamine Irgastab FS 042 and a high molecular weight hindered amine phenol-free in a 1 : 1 ratio. The system shows excellent compatibility, high resistance to extraction and low volatility.

Chemical name

Irgastab FS 042: Oxidized bis(hydrogenated tallow alkyl)amines
High molecular weight HALS: 1,3,5-Triazine-2,4,6-triamine,N,N'''-[1,2-ethane-diyl-bis[[[4,6-bis-[butyl(1,2,2,6,6-pentamethyl-4-piperidinyl)amino]-1,3,5-triazine-2-yl]imino]-3,1-propanediyl]]bis[N',N''-dibutyl-N',N''-bis(1,2,2,6,6-pentamethyl-4-piperidinyl)-

CAS number

Preparation

Molecular weight

Irgastab FS 042	538 g/moll
CGL 119	2286 g/mol

Applications

Irgastab FS 210 is used as a processing stabilizer in polyolefin applications where low color and low gas fad discoloration are required.

Features/benefits

Irgastab FS 210 provides outstanding processing stability to polyolefins while virtually eliminating any discoloration that may occur if phenolic systems are used. The system also provides both long-term thermal stability as well as a higher level of light stability compared to phenolic processing stabilizer systems. Furthermore Irgastab FS systems also enhance the ability of hindered amines to act as light stabilizers. Irgastab FS 210 displays outstanding compatibility, especially in polyethylene polymers.

Product forms

Irgastab FS 210 FF granules

Guidelines for use

Irgastab FS systems are effective as processing stabilizers when used at 0.075 % – 0.1 %.

Health & Safety

Irgastab FS 210 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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