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Irgastab® FS 410

Non-Phenolic Processing Stabilizer System

Characterization

Irgastab FS 410 is a system composed of a high molecular weight hydroxylamine Irgastab FS 042 and a high molecular weight hindered amine BASF Chimassorb® 944 in a 1 : 1 ratio. The system shows excellent compatibility, high resistance to extraction and low volatility.

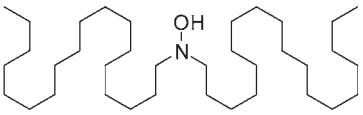
Chemical name

Irgastab FS 042	Oxidized bis(hydrogenated tallow alkyl) amines
Chimassorb 944	Poly[[6-[(1,1,3,3-tetramethylbutyl)amino]-1,3,5-triazine-2,4-diyl][(2,2,6,6¬tetramethyl-4-piperidinyl)imino]-1,6-hexanediyl[(2,2,6,6-tetramethyl-4-piperidinyl)imino]])

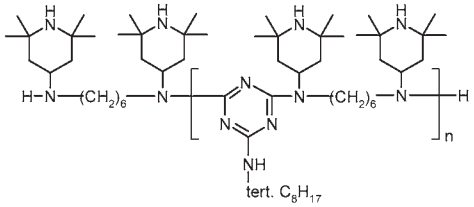
CAS number

Preparation

Chemical formula



Irgastab FS 042



Chimassorb 944

Molecular weight

Irgastab FS 042	538 g/mol
Chimassorb 944	M_n = 2000 – 3100 g/mol

Applications

Irgastab FS 410 is used as a processing stabilizer in polyolefin applications where low color and low gas fade discoloration are required.

Features/benefits

Irgastab FS 410 provides outstanding processing stability to polyolefins while virtually eliminating any gas fade discoloration that may occur when phenolic systems are used. The system also provides both long-term thermal stability as well as a higher level of light stability than would be seen with phenolic processing stabilizer systems. Furthermore Irgastab FS systems also enhance the ability of hindered amines to act as light stabilizers.

Product forms

Irgastab FS 410 FF	white to off-white, free-flowing granules

Guidelines for use

Irgastab FS systems are effective as processing stabilizers when used at 0.075 % – 0.1 %. They are generally effective at 50 % to 60 % the concentration of the previously used processing stabilizer.

Health & Safety

Irgastab FS 410 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

September 2010

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