

BYK-MAX HS 4305

Granulated carrier-free thermal stabilizer masterbatch based on inorganic salts for use in polyamide compounds to increase the thermal stability.

Product Data

Composition

Additive formulation

Typical Properties

The values indicated in this data sheet describe typical properties and do not constitute specification limits.

Active substance: 100 %

Supplied as: Rod-like granules

Storage and Transportation

Store in a cool, dry and well-ventilated location.

Special Note

The product tends to hydrolyze when exposed to humidity. The degree of hydrolysis depends on temperature, humidity and the length of exposure. This can cause a change of color from white to grey/greenish. This change typically does not affect the efficiency of the product.

Applications

Thermoplastics

Special Features and Benefits

BYK-MAX HS 4305 provides a complete thermal stabilization system for polyamide fibers, films and high build applications. In addition, it offers significantly better dispersion than typical copper-containing additive packages in unfilled polyamide systems. Copper-based systems are especially effective in applications where long-term thermal stability is needed.

BYK-MAX HS 4305 is a complete formulation that contains all of the components necessary for polyamide thermal stabilization. This formulation is available in granules and low-dust pellets, making it easier to incorporate while enabling a healthier work environment for the employee.

BYK-MAX HS 4305 also provides the following benefits:

- The easy-to-dose form is free-flowing and does not block the processing equipment.
- Provides for a more uniform distribution of the additive in the polymer.
- Available in pellet form and granular form.

Recommended Use

Engine Compartment Parts	☒
Automotive Interior	☒
Fibers	☐
Wires & Cables	☒
Films	☐

☒ especially recommended ☐ recommended

Recommended Levels

0.1 % to 1.0 % additive (as supplied) based on the total formulation, depending on the application.

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

Incorporation and Processing Instructions

BYK-MAX HS 4305 can be dispersed into the polyamide by using conventional extrusion compounding techniques.

Special Note

BYK-MAX HS 4305 has the high synergistic effects with other plastics additives, including light absorbers, HALS, other stabilizers and more.



Additive Guide



BYK-Chemie GmbH
P.O. Box 10 02 45
46462 Wesel
Germany
Tel +49 281 670-0
Fax +49 281 65735

info@byk.com
www.byk.com

ACTAL®, ADD-MAX®, ADD-VANCE®, ADJUST®, ADVITROL®, ANTI-TERRA®, AQUACER®, AQUAMAT®, AQUATIX®, BENTOLITE®, BYK®, BYK®-DYNWET®, BYK®-MAX®, BYK®-SILCLEAN®, BYKANOL®, BYKETOL®, BYKJET®, BYKO2BLOCK®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, CERACOL®, CERAFAK®, CERAFLOUR®, CERAMAT®, CERATIX®, CLAYTONE®, CLOISITE®, DISPERBYK®, DISPERPLAST®, FULACOLOR®, FULCAT®, GARAMITE®, GELWHITE®, HORDAMER®, LACTIMON®, LAPONITE®, MINERAL COLLOID®, MINERPOL®, NANOBYK®, OPTIBENT®, OPTIFLO®, OPTIGEL®, PAPERBYK®, PERMONT®, POLYAD®, PRIEX®, PURE THIX®, RECYCLOBLEND®, RECYCLOBYK®, RECYCLOSSORB®, RECYCLOSTAB®, RHEOBYK®, RHEOCIN®, RHEOTIX®, SCONA®, SILBYK®, TIXOGEL®, VISCOBYK® and Y 25® are registered trademarks of the BYK group.

The information herein is based on our present knowledge and experience. The information merely describes the properties of our products but no guarantee of properties in the legal sense shall be implied. We recommend testing our products as to their suitability for your envisaged purpose prior to use. No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding any products mentioned herein and data or information set forth, or that such products, data or information may be used without infringing intellectual property rights of third parties. We reserve the right to make any changes according to technological progress or further developments.

This issue replaces all previous versions – Printed in Germany