BYK-MAX HS 4342

Granulated long-term thermal stabilizer based on organic stabilizers, carbon black and coupling agents for use in PP-GF.

Product Data

Composition
Additive formulation

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

Bulk density:	500-650 kg/m³
Active substance:	60 %
Supplied as:	Black granulate

Food Contact Legal Status
For the current food contact legal status, please contact our product safety department or visit www.byk.com for further information.

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

Applications

Thermoplastics

Special Features and Benefits
BYK-MAX HS 4342 consists of a combination of thermal stabilizers, carbon black and a SCONA coupling agent. The stabilizers inhibit thermo-oxidative decomposition by intercepting radicals and decomposing reactive peroxides. The SCONA coupling agent contained in the product ensures a strong and stable interaction of the glass fibers and the polymer matrix by increasing the reactivity between the polypropylene and the glass fibers. BYK-MAX HS 4342 also has a very positive influence on long-term heat aging (LTHA), which makes it possible to comply with the automotive standard specifications more easily. Depending on the glass fiber content, adding approx. 3.5 % of the additive can achieve a long-term heat aging duration of 1000 hours at 150 °C. BYK-MAX HS 4342 consists of a non-adhesive granulate, and is dust-free as well as being safe and easy to handle.

Recommended Use

Long fiber-reinforced pellets for automotive parts	■
Underbody paneling	■
Sheets and partitions	■
Structural components	■
Door modules	■

■ especially recommended □ recommended

Recommended Levels

3.5 % additive (as supplied) based on the total formulation for 20-40 % glass fiber content.

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

Incorporation and Processing Instructions

The additive can be added via volumetric or gravimetric dosing units during processing in all extruders and injection molding machines.

Special Note

The product is suitable for processing at temperatures up to 300 °C.

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