

BYK-MAX HS 4316

High-performance organic heat stabilizer concentrate for filled and unfilled polyamide compositions to provide superior stability during long exposure to high temperatures.

Product data

Composition

Organic heat stabilizer composition

Typical properties

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

MFR (190 °C, 1.2 kg): 25 g/10 min
 Bulk density: 500 kg/m³
 Color: colorless-light yellow
 Delivery form: pellet

Storage and transportation

Product shelf life in unopened original packaging: 24 months
 Store in sealed containers in a cool, dry, and well-ventilated place.

Applications

Thermoplastics

Special features and benefits

BYK-MAX HS 4316 provides a complete stabilization package designed for unfilled, mineral-filled, and glass-fiber-filled polyamide composites. The stabilization package inhibits thermo-oxidative decomposition by intercepting radicals and decomposing reactive peroxides. Depending on the glass-fiber content and dosage, BYK-MAX HS 4316 can help achieve a long-term heat aging duration beyond 6000 hours at 120 °C. BYK-MAX HS 4316 is manufactured with a tight concentration specification for reliable performance. It provides long-term thermal stabilization, is safe, and easy to handle.

Recommended use

Extrusion and blow molding parts	☒
Injection and compression molding parts	☒
Thick films and sheets	☒
Fibers	☐

☒ Especially recommended ☐ Recommended

Recommended levels

0.5-3 % additive (as supplied) based on the polyamide portion of the formulation.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

This product can be added via volumetric or gravimetric dosing units during processing in all types of extruders, blow molding and injection molding machines.



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