

BYK-MAX CT 4260

Phyllosilicate for use as a flame retardant synergist for halogen-free flame retardant thermoplastics as well as to improve the physical and barrier properties in thermoplastic compounds.

Product Data

Composition

Organophilic phyllosilicate

Typical Properties

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

Bulk density: 400-600 kg/m³
Density (20 °C): approx. 1.80 g/ml
Particle Size, D₅₀: < 20 µm
Moisture content: < 3 %
Supplied as: creamy white powder

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

To be stored and transported at a temperature below 50 °C. Store dry.

Applications

Thermoplastics

Special Features and Benefits

BYK-MAX CT 4260 is particularly suitable for halogen-free flame retardant thermoplastic compounds, as its addition improves the flame retardant properties as well as the dropping behavior and crust formation. BYK-MAX CT 4260 can reduce the filler content of, for example, aluminum or magnesium hydroxide. This improves process and physical properties, and reduces the overall weight. The barrier properties to oxygen, water vapor and hydrocarbons can be increased by using BYK-MAX CT 4260. In thermoplastics, such as polyamides (PA), and bioplastics such as polylactides (PLA), the melt viscosity is increased, enabling an improvement in the dimensional stability during profile extrusion.

Recommended Use

Aluminum hydroxide-filled ethylene-vinyl acetate (EVA)	■
Low-density polyethylene (LDPE/LLDPE)	■
Magnesium hydroxide-filled polypropylene (PP)	■
Polypropylene (PP) films	■
Poly lactide (PLA) films	■

■ especially recommended □ recommended

Recommended Levels

3-5 % additive (as supplied) based on the total formulation.

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

Incorporation and Processing Instructions

To achieve an optimum dispersion and exfoliation of the additive, the use of co-rotating twin screw extruders or a BUSS kneader is recommended when compounding thermoplastic synthetic materials. When compounding, it is beneficial to select the longest possible process unit (> 40 L/D) and a screw geometry with a high dispersion performance. To avoid compaction of the additive, if possible it should be added via a side feeder to the already molten polymer.



Additive Guide



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