

Technical data

KEBABLEND / H 84.1700 PBT

KEBABLEND / H 84.1700 PBT is a functional compound based on PBT with high density.

Polymer: PBT

ISO designation: PBT-MED

Productgroup: Compounds with high density, Functionalized compounds

Brief description of the product family:

KEBABLEND is a wide range of functional compounds, often tailor-made to customer requirements. Under the trade name KEBABLEND, we market magnetizable, thermally or electrically conductive compounds, high-density injection molding materials, compounds for radiation protection applications, detectable plastics and much more.

Properties:

dimensionally stable, good chemical resistance, High density, semi-crystalline

Typical areas of application:

Actuating elements, industrial goods, Vibration damper

Industries:

Automotive, Railroad industry, Household appliances, Industry, Mechanical Engineering, Sports & Recreation

Physical properties

Density in kg/m ³ ISO 1183-1	8400.00
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Mechanical properties

E-modulus in MPa ISO 527-1	8300
Breaking stress in MPa ISO 527-1	42.0
Elongation at break in % ISO 527-1	1.0
Impact strength (Charpy) at 23°C in kJ/m ² ISO 179-1eU	12.5
Notched impact strength (Charpy) at 23°C in kJ/m ² ISO 179-1eA	3.5

Thermal properties

Fire behavior (0.4 mm wall thickness) IEC 60695-11-10	HB
Fire behavior (0.8 mm wall thickness) IEC 60695-11-10	HB
Fire behavior (1.6 mm wall thickness) IEC 60695-11-10	HB
Fire behavior (3.2 mm wall thickness) IEC 60695-11-10	HB

Processing instructions:**Pre-drying:**

Dryer type: dry air dryer

Temperature: 80°C

Drying time: 4-8 h

Moisture content during processing: < 0.02%.

Recommended basic settings:

Melt temperature: 250 – 260°C

Mold temperature: 90 – 120 °C

Injection speed: high

Back pressure: 40 – 80bar (spec.)

Machine selection:

Screw: Low compression screw with non-return valve

Nozzle: Open nozzle

Wear protection: Wear and corrosion protected according to machine manufacturer's recommendation, suitable for processing highly filled plastics

Injection unit: Shot volume = 50-80% of maximum metering volume

Other important processing notes:

The residence time of the melt in the screw antechamber should be kept as short as possible. If this is not observed, segregation can occur due to the large difference in density between the filler and the carrier material if the downtimes are too high. The ideal here is metering time = cooling time. A medium back pressure leads to optimum homogenization. Due to the high filler content, the spraying equipment must be equipped with wear and corrosion protection.

* FE products are development products that are still in the trial phase. Technical data may still change in the course of product and process development. No final decision has yet been made on the commercialization of FE products. We reserve the right to discontinue the manufacture of FE products without giving further reasons.

Legal notices:

The information in this data sheet is based on our current knowledge and experience. Due to the wide range of possible influences during processing and application of our products, they do not exempt the processor from carrying out his own tests and trials. A legally binding assurance of certain properties or suitability for a specific application cannot be derived from our information.

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