

Technical data

KEBABLEND / TC FE 181003 PBT (Development product*)

KEBABLEND / TC FE 181003 PBT is a special compound based on PBT, which is thermally conductive and electrically insulating.

Polymer: PBT

ISO designation: PBT-GF-X

Productgroup: THERMALLY CONDUCTIVE COMPOUNDS, 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:

thermally conductive

Typical areas of application:

Pumps and motors, Pump housing, Structural components, Connecting elements

Industries:

Automotive, Household appliances, Industry, Mechanical Engineering, Furniture industry

Mechanical properties

E-modulus in MPa ISO 527-1	13300
Breaking stress in MPa ISO 527-1	95.0
Elongation at break in % ISO 527-1	1.5
Impact strength (Charpy) at 23°C in kJ/m ² ISO 179-1eU	30.0

Physical properties

Density in kg/m ³ ISO 1183-1	1680.00
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Thermal properties

Melting temperature (DSC, 10°C/min) in °C ISO 11357-1/-3	225.0
Continuous operating temperature in °C ISO 2578	120.0
Thermal conductivity in plane in W/mK DIN EN 821	1.5
Thermal conductivity through plane in W/mK DIN EN 821	1.0

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: 3-zone screw with non-return valve

Nozzle: Open nozzle or shut-off nozzle

Wear protection: Wear protected according to machine manufacturer's recommendation, suitable for processing fiber reinforced plastics

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

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.

* FE products are development products which 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.

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