

Technical data

KEBABLEND / EC FE 220601/1 PPS

KEBABLEND / EC FE 220601/1 PPS is an electrically conductive PPS compound (DB) with glass and steel fiber reinforcement.

Polymer: PPS

ISO designation: PPS-GF30-MEF

Productgroup: Electrically conductive compounds, Functionalized compounds, PPS, Shielding 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:

antistatic, dimensionally stable, electrically conductive, good chemical resistance, good aging behavior, good fire behavior, high continuous used temperature, High strength, High stiffness, semi-crystalline

Typical areas of application:

Housing, Couplings, Pumps and motors, Pump housing, Sensors, Bobbin

Industries:

Automotive, Electrical and electronics industry, Household appliances, Industry, Aviation Industry, Mechanical Engineering

Physical properties

Density in kg/m ³ ISO 1183-1	1650.00
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Mechanical properties

E-modulus in MPa ISO 527-1	10000
Breaking stress in MPa ISO 527-1	110.0
Elongation at break in % ISO 527-1	1.4
Impact strength (Charpy) at 23°C in kJ/m ² ISO 179-1eU	30.0
Notched impact strength (Charpy) at 23°C in kJ/m ² ISO 179-1eA	8.0

Rheological properties

Shrinkage in flow direction in % ISO 294-4	0.20
Shrinkage transverse to the flow direction in % ISO 294-4	0.40

Thermal properties

Melting temperature (DSC, 10°C/min) in °C ISO 11357-1/-3	283.0
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Processing instructions:**Pre-drying:**

Dryer type: dry air dryer

Temperature: 120 – 140°C

Drying time: 4 – 8 h

Target moisture content: <0,02%

Recommended basic settings:

Melt temperature: 320 – 340°C

Mold temperature: 140 – 180°C

Back pressure (spec.): < 10 bar

The injection speed should be set as a slow – fast – slow profile. The basic principle is: as fast as possible, as slow as necessary.

Machine selection:

In the processing of KEBATRON PPS, wear and corrosion protected injection units have proven their worth. The injection unit should be selected so that the shot volume is 50 – 80% of the maximum metering volume. The dwell time should be kept as short as possible.

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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