

Technical data

KEBABLEND / WR 07/1130/2115

KEBABLEND / WR 07/1130/2115 is a tribologically modified special compound based on PPS that combines high strength with good sliding properties and high wear resistance, even at elevated temperatures.

Polymer: PPS

ISO designation: PPS-GF30-X15

Productgroup: Tribocompounds, 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:

electrically isolating, good chemical resistance, good gliding properties, good fire behavior, good recovery behavior, high continuous used temperature, High strength, High wear resistance, semi-crystalline

Typical areas of application:

Industries:

Physical properties

Density in kg/m³ | ISO 1183-1

1680.00

Mechanical properties

E-modulus in MPa | ISO 527-1

12000

Breaking stress in MPa | ISO 527-1

145.0

Elongation at break in % | ISO 527-1

1.6

Impact strength (Charpy) at 23°C in kJ/m² | ISO 179-1eU

36.0

Notched impact strength (Charpy) at 23°C in kJ/m² | ISO 179-1eA

10.0

Thermal properties

Melting temperature (DSC, 10°C/min) in °C | ISO 11357-1/-3

278.0

Heat deflection temperature HDT (1.80 MPa) in °C | ISO 75-1/-2

260.0

Fire behavior (0.8 mm wall thickness) | IEC 60695-11-10

V-0

Electrical properties

Contact resistance in Ohm*m | IEC 60093

1e+14

Processing instructions:

Pre-drying:

Dryer type: dry air dryer (!).

Temperature: 120 – 140 °C

drying time: 4 – 8 h

Recommended max. residual moisture: < 0.02 %.

Recommended basic settings:

melt temperature: 320 – 340°C

Mold temperature: 140 – 180°C (As a rule of thumb, the higher the requirements, the higher the mold temperature).

Back pressure: < 10 bar (spec.)

The injection speed should be set as a slow – fast – slow profile. As a principle: 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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