

## Technical data

# KEBABLEND / MW FE 181201 PPS (Development product\*)

KEBABLEND / MW FE 181201 PPS is a development product based on PPS for the production of soft magnetic components. The achievable permeability is 50 (at 1MHz) and the saturation flux density  $\leq 450$  mT.

**Polymer:** PPS

**ISO designation:** PPS-MED

**Productgroup:** Magnetic 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:**

dimensionally stable, semi-crystalline, soft magnetic

### **Typical areas of application:**

### **Industries:**

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

## Physical properties

Density in kg/m <sup>3</sup>   ISO 1183-1	3900.00
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## Rheological properties

Shrinkage in flow direction in %   ISO 294-4	0.15
Shrinkage transverse to the flow direction in %   ISO 294-4	0.40

## **Processing instructions:**

### **Pre-drying:**

Dryer type: dry air dryer.

Temperature: 120 – 130°C

Drying time: 2 – 3 h

Target moisture content: <0.02%.

### **Recommended basic settings:**

Melt temperature: 300 – 330°C

Mold temperature: 140 – 160°C

Injection speed: medium – high

Holding pressure: high

Back pressure: 40 – 80bar (spec.)

### **Machine selection:**

Screw: special injection units for magnetic compounds; low compression screws with non-return valve

Nozzle: Open nozzle

Wear protection: Wear and corrosion protected according to machine manufacturer's recommendation suitable for processing magnetic compounds

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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