

## Technical data

### KEBABLEND / WR XB 111001/4

KEBABLEND / WR XB 111001/4 is a special compound based on POM homopolymer, which has very good sliding properties and high wear resistance. The material has medium strength and high elongation at break and, compared to POM copolymer, increased melting temperature and heat resistance.

**Polymer:** POM

**ISO designation:** POM-H

**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:**

dimensionally stable, good chemical resistance, good gliding properties, good recovery behavior, High strength, High stiffness, High wear resistance, semi-crystalline

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

Sliding elements, Plain bearing, industrial goods, Bearing bushes, Rollers, Rotors, Transport chains, Gears

#### **Industries:**

Automotive, Household appliances, Industry, Agriculture, Mechanical Engineering, Furniture industry, Sports & Recreation

## Electrical properties

Contact resistance in Ohm*m   IEC 60093	1e+16
Surface resistivity in ohms   IEC 60093	1e+14

## Mechanical properties

Breaking stress in MPa   ISO 527-1	60.0
Elongation at break in %   ISO 527-1	25.0
Impact strength (Charpy) at 23°C in kJ/m <sup>2</sup>   ISO 179-1eU	100.0
Notched impact strength (Charpy) at 23°C in kJ/m <sup>2</sup>   ISO 179-1eA	9.0

## Physical properties

Density in kg/m <sup>3</sup>   ISO 1183-1	1380.00
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## Rheological properties

Melt flow rate MFR (test condition)	190°C / 2,16kg
Melt flow rate MFR in g/10min   ISO 1133	15.0

## Rheological properties

Shrinkage in flow direction in %   ISO 294-4	2.00
Shrinkage transverse to the flow direction in %   ISO 294-4	1.60

## Thermal properties

Melting temperature (DSC, 10°C/min) in °C   ISO 11357-1/-3	178.0
Heat deflection temperature HDT (1.80 MPa) in °C   ISO 75-1/-2	95.0
Fire behavior (0.8 mm wall thickness)   IEC 60695-11-10	HB
Fire behavior (1.6 mm wall thickness)   IEC 60695-11-10	HB

**Processing instructions:****Pre-drying recommendation:**

Dryer type: dry air dryer

Temperature: 80 °C

Drying time: 2 - 4 h

**Recommended basic settings:**

Melt temperature: 180 - 210 °C

Mold temperature: 90 - 100 °C

Injection speed: slow - medium

Back pressure: 0 - 50bar (spec.)

**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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