Technical data
KEBABLEND / WR XB 111001/5

KEBABLEND /WR XB 111001/5 is a special compound based on POM that exhibits very good sliding properties and high wear 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

Physical properties

Water absorption in % | in Anlehnung an ISO 62	0.30
Moisture absorption 23°C/50% r.h. in %. | in Anlehnung an ISO 62	1.00
Density in kg/m³ | ISO 1183-1	1500.00

Mechanical properties

E-modulus in MPa | ISO 527-1	2800
Elongation at yield in % | ISO 527-1	9.0
Breaking stress in MPa | ISO 527-1	45.0
Impact strength (Charpy) at 23°C in kJ/m² | ISO 179-1eU	40.0
Notched impact strength (Charpy) at 23°C in kJ/m² | ISO 179-1eA	5.0

Rheological properties

Melt flow rate MFR in g/10min | ISO 1133	2.0
Shrinkage in flow direction in % | ISO 294-4	1.80
Shrinkage transverse to the flow direction in % | ISO 294-4	2.10

Thermal properties

Melting temperature (DSC, 10°C/min) in °C | ISO 11357-1/-3	166.0
Heat deflection temperature HDT (1.80 MPa) in °C | ISO 75-1/-2	120.0
Fire behavior (0.8 mm wall thickness) | IEC 60695-11-10	HB
Fire behavior (1.6 mm wall thickness) | IEC 60695-11-10	HB

Electrical properties

Contact resistance in Ohm*m | IEC 60093	1e+14
Surface resistivity in ohms | IEC 60093	1e+15

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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