BARLOG Plastics
Mehr aus Polymer.

Technical data
KEBATER PBT BF130

PBT-GF30, PBT, 30% glass fibre reinforced

Polymer: PBT

ISO designation: PBT-GF30

Productgroup: PBT

Brief description of the product family:

KEBATER is the trade name of our range of thermoplastic polyesters. KEBATER products are characterized by good stiffness and strength, excellent electrical properties, advantageous fire properties and a good price-performance ratio. The product range includes PBT and PBT blends in different variants: unreinforced and glass fiber reinforced, impact modified, flame retardant, warp optimized as well as other compounds tailored to special requirements.

Properties:

dimensionally stable, good chemical resistance, Good electrical properties, good gliding properties, High strength, High stiffness, High wear resistance, semi-crystalline, PFAS-free

Typical areas of application:

Electronic components, Housing, Plug, Structural components, Connecting elements

Industries:

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

Physical properties

Humidity absorption 23°C/50% r.h. in %. | in Anlehnung an ISO 62	0.15
Density in kg/m³ | ISO 1183-1	1520

Mechanical properties

Tensile modulus in MPa | ISO 527-1	10000
Stress at break in MPa | ISO 527-1	145
Strain at break in % | ISO 527-1	3
Impact strength (Charpy) at 23°C in kJ/m² | ISO 179-1eU	60
Impact strength (Charpy) at -30°C in kJ/m² | ISO 179-1eU	60
Notched impact strength (Charpy) at 23°C in kJ/m² | ISO 179-1eA	12
Notched impact strength (Charpy) at -30°C in kJ/m² | ISO 179-1eA	12

Rheological properties

Molding shrinkage in flow direction in % | ISO 294-4	0.4
Molding shrinkage transverse to the flow direction in % | ISO 294-4	1.0

Thermal properties

Melting temperature (DSC, 10°C/min) in °C | ISO 11357-1/-3	225
Temp. of deflection under load, 1.80 MPa in °C | ISO 75-1/-2	205
Temp. of deflection under load, 0.45 MPa in °C | ISO 75-1/-2	220
Coeff. of linear therm. expansion in flow direction in E-6/K | ISO 11359-1/-2	40
Coeff. of linear therm. expansion transverse to the flow direction in E-6/K | ISO 11359-1/-2	70
Burning behavior at thickness 0.8 mm | IEC 60695-11-10	HB
Yellow Card available |	ja

Electrical properties

Volume resistivity in Ohm*m | IEC 60093	1e+17
Surface resistivity in ohm | IEC 60093	1e+15

Processing instructions:

Pre-drying:

Dryer type: dry air dryer.
Temperature: 100 – 120°C
Drying time: 2 – 4 h
Residual moisture: < 0.02%.

Temperatures:

Melt temperature: 245 – 260°C
Mold temperature: 80 – 120°C
Back pressure: max. 40 bar (specific)
Injection speed: medium to high

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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