

## Technical data KEBATER PBT BB120

PBT-GB20, PBT, 20% glass beads

**Polymer:** PBT

**ISO designation:** PBT-GB20

**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, Low warpage, good chemical resistance, Good electrical properties, good gliding properties, High strength, High stiffness, High wear resistance, semi-crystalline

### **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	
Density in kg/m <sup>3</sup>   ISO 1183-1	1450.00

Mechanical properties	
E-modulus in MPa   ISO 527-1	3400
Yield stress in MPa   ISO 527-1	50
Elongation at break in %   ISO 527-1	7.0
Impact strength (Charpy) at 23°C in kJ/m <sup>2</sup>   ISO 179-1eU	34.0
Notched impact strength (Charpy) at 23°C in kJ/m <sup>2</sup>   ISO 179-1eA	2.5

Rheological properties	
Melt flow rate MFR (test condition)	250°C / 2,16kg
Melt flow rate MFR in g/10min   ISO 1133	20.0

Thermal properties	
Melting temperature (DSC, 10°C/min) in °C   ISO 11357-1/-3	225.0

## Thermal properties

Continuous operating temperature in °C   ISO 2578	130.0
Heat deflection temperature HDT (1.80 MPa) in °C   ISO 75-1/-2	60.0
Heat deflection temperature HDT (0.45 MPa) in °C   ISO 75-1/-2	160.0
Coefficient of thermal expansion in flow direction in E-6/K   ISO 11359-1/-2	115.0
Coefficient of thermal expansion transverse to the flow direction in E-6/K   ISO 11359-1/-2	115.0
Fire behavior (0.8 mm wall thickness)   IEC 60695-11-10	HB

## Electrical properties

Contact resistance in Ohm*m   IEC 60093	1e+13
Dielectric strength in kV/mm   IEC 60243-1	25

**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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