

## Technical data

### **KEBATER PBT FE 180201 gray (development product\*)**

PBT+PCT, unreinforced, increased heat resistance, impact modified

**Polymer:** PBT

**ISO designation:** PBT/PC-I-RT

**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, good aging behavior, impact resistant, semi-crystalline

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

#### **Industries:**

## Physical properties

Density in kg/m <sup>3</sup>   ISO 1183-1	1240.00
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## Mechanical properties

E-modulus in MPa   ISO 527-1	2140
Yield stress in MPa   ISO 527-1	47
Elongation at yield in %   ISO 527-1	6.5
Impact strength (Charpy) at 23°C in kJ/m <sup>2</sup>   ISO 179-1eU	100.0
Impact strength (Charpy) at -30°C in kJ/m <sup>2</sup>   ISO 179-1eU	60.0
Notched impact strength (Charpy) at 23°C in kJ/m <sup>2</sup>   ISO 179-1eA	6.0
Notched impact strength (Charpy) at -30°C in kJ/m <sup>2</sup>   ISO 179-1eA	3.0
Shore D hardness   DIN ISO 7619-1	77

## Rheological properties

Melt flow rate MFR (test condition)	300°C / 2,16 kg
Melt flow rate MFR in g/10min   ISO 1133	82.0

## Thermal properties

Melting temperature (DSC, 10°C/min) in °C   ISO 11357-1/-3	274.0
Heat deflection temperature HDT (1.80 MPa) in °C   ISO 75-1/-2	78.0
Fire behavior (0.4 mm wall thickness)   IEC 60695-11-10	HB
Fire behavior (0.8 mm wall thickness)   IEC 60695-11-10	HB
Fire behavior (1.6 mm wall thickness)   IEC 60695-11-10	HB
Fire behavior (3.2 mm wall thickness)   IEC 60695-11-10	HB

**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: 255 – 275°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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