

## Technical data

### KEBATER PET D07 300

PET, non-reinforced, high viscosity for the production of transparent components by injection molding, extrusion or extrusion blow molding. When the material is used in packaging applications, the packaging made from it is 100% recyclable in existing PET recycling streams.

**Polymer:** PET

**ISO designation:** PET

**Productgroup:** Our entire range

#### **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:**

amorphous, dimensionally stable, compliant for food contact (according to 10/2011 EC), semi-crystalline

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

Glasses frames, Cover, Filter cups, Housing, Crockery and cutlery, industrial goods, Cosmetic packaging, Food packaging, Toys, Sports & Leisure Articles

#### **Industries:**

Household appliances, Industry, Agriculture, Food processing industry, Sanitary industry, Sports & Recreation

## Physical properties

Density in kg/m <sup>3</sup>   ISO 1183-1	1330.00
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## Mechanical properties

E-modulus in MPa   ISO 527-1	2.700
Yield stress in MPa   ISO 527-1	55
Elongation at yield in %   ISO 527-1	3,5
Elongation at break in %   ISO 527-1	> 150
Impact strength (Charpy) at 23°C in kJ/m <sup>2</sup>   ISO 179-1eU	100
Notched impact strength (Charpy) at 23°C in kJ/m <sup>2</sup>   ISO 179-1eA	2,7

## Rheological properties

Melt flow rate MFR (test condition)	285°C/2,16kg
Melt flow rate MFR in g/10min   ISO 1133	6 g/10min

## Thermal properties

Melting temperature (DSC, 10°C/min) in °C   ISO 11357-1/-3	247.0
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**Processing instructions:****Pre-drying:**

Type of dryer: Dry air dryer.

Processing residual moisture: <0.005%.

drying temperature: max. 160°C

typical drying time: 4 – 6h

**Processing recommendations for amorphous processing:**

Melt temperature: 270 – 300°C

Hot runner temperature: 280 – 290°C

mold temperature: <20°C

Injection speed: slow to medium

Back pressure: 40 to 80 bar specific

Holding pressure profile: hold 50 to 70 % of the injection pressure for 1 to 2 s and then allow to fall over a ramp. For very thin-walled or thick-walled parts, the optimum holding pressure may differ from the percentage recommendation.

**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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