

PRECITE® PRELIMINARY

P3 GK 30 natural (7643)

PBT GK30

PRECITE® P3 GK 30 natural (7643) is a 30% glass bead filled poly(butylene terephthalate) (PBT) with excellent dimensional stability, low warpage and high surface quality.

Properties

Modulus

3.900 MPa

Strength

50 MPa

Impact

25 kJ/m²

Mechanical Properties

Tensile modulus

ISO 527-2

1 mm/min | d.a.m.

3900 MPa

Tensile stress at break

ISO 527-2

5 mm/min | d.a.m.

50 MPa

Tensile strain at break

ISO 527-2

5 mm/min | d.a.m.

4 %

Charpy impact strength

ISO 179-1/1eU

23°C | d.a.m.

25 kJ/m²

Charpy notched impact strength

ISO 179-1/1eA

23°C | d.a.m.

3 kJ/m²

Thermal Properties

Melting temperature

ISO 11357-3

DSC, 10K/min

225 °C

Flammability

Flammability

UL 94

1,6 mm Wall thickness

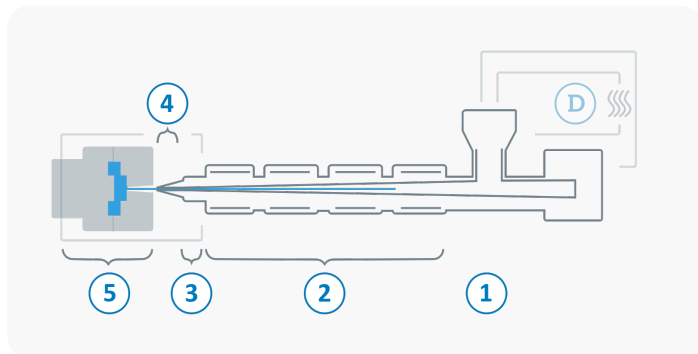
HB Class

General Properties

Density ISO 1183	23°C	1,51 g/cm ³
Molding shrinkage ISO 294-4	flow	1,2 - 1,4 %
	transverse	1,3 - 1,5 %

Processing

The values mentioned are recommendations. We only recommend desiccant / dry air dryers or vacuum dryers. Too long a drying time and the resulting residual moisture content below the lower limit can lead to filling problems and surface defects. The specified drying time refers to closed and undamaged bagged material. When processing from previously opened bags or from octabins with polyolefin inliners, a longer drying time may be necessary. It is recommended to check the residual moisture content after the drying process.



D	Drying time	3 - 4 h
	Drying temperature ($\tau \leq -30^{\circ}\text{C}$)	100 - 120 °C
	Processing moisture	0,02 - 0,04 %
1	Feed section	60 - 80 °C
2	Temperature Zone 1 - Zone 4	250 - 275 °C
3	Nozzle temperature	250 - 280 °C
4	Melt temperature	260 - 275 °C
5	Mold temperature	80 - 100 °C
→	Holding pressure, spec.	300 - 800 bar
←	Back pressure, spec.	30 - 100 bar
	Injection speed	medium to high
	Screw speed	8 - 15 m/min

Diagrams

