

PRECITE® PRELIMINARY

K GF 15 natural (7439)

PBT-PET- GF 15

PRECITE K GF 15 natural (7439) is a 15% glass fibre reinforced PBT/PET blend with high strength and improved surface finish.

Properties

Modulus

6.000 MPa

Strength

115 MPa

Impact

30 kJ/m²

Mechanical Properties

Tensile modulus

ISO 527-2

1 mm/min | d.a.m.

6000 MPa

Tensile stress at break

ISO 527-2

5 mm/min | d.a.m.

115 MPa

Tensile strain at break

ISO 527-2

5 mm/min | d.a.m.

3,0 %

Flexural modulus

ISO 178

2 mm/min | d.a.m.

5900 MPa

Flexural strength

ISO 178

2 mm/min | d.a.m.

170 MPa

Charpy impact strength

ISO 179-1/1eU

23°C | d.a.m.

30 kJ/m²

Charpy notched impact strength

ISO 179-1/1eA

23°C | d.a.m.

6 kJ/m²

Thermal Properties

Temperature of deflection under load HDT/A

ISO 75

1,8 MPa

180 °C

Melting temperature

ISO 11357-3

DSC, 10K/min

250 °C

Flammability

Flammability

UL 94

0,8 mm Wall thickness

HB Class

General Properties

Density

ISO 1183

23°C

1,44 g/cm³

Molding shrinkage

ISO 294-4

flow

0,4 - 0,6 %

transverse

0,9 - 1,1 %

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 ($\tau \leq -30^{\circ}\text{C}$)	120 - 140 $^{\circ}\text{C}$
	Processing moisture	0,02 %
1	Feed section	60 - 80 $^{\circ}\text{C}$
2	Temperature Zone 1 - Zone 4	260 - 280 $^{\circ}\text{C}$
3	Nozzle temperature	260 - 290 $^{\circ}\text{C}$
4	Melt temperature	270 - 280 $^{\circ}\text{C}$
5	Mold temperature	80 - 100 $^{\circ}\text{C}$
→	Holding pressure, spec.	300 - 800 bar
←	Back pressure, spec.	30 - 100 bar
	Injection speed	medium to high
	Screw speed	8 - 15 m/min