

AKROTEK®

PK-VM GF 10 grey (7344)

PK GF10

AKROTEK® PK-VM GF 10 grey (7344) is a 10% glass fibre reinforced Polyketone with average stiffness and strength. The material is colored in grey similar to RAL 7044. This grade is suitable for parts of switches in the electric industry.

Features

hydrolysis / chemically stabilised

Properties

Modulus

3.600 MPa

Strength

65 MPa

Impact

50 kJ/m²

Mechanical Properties

Tensile modulus

ISO 527-2

1 mm/min | d.a.m.

3600 MPa

Tensile stress at break

ISO 527-2

5 mm/min | d.a.m.

65 MPa

Tensile strain at break

ISO 527-2

5 mm/min | d.a.m.

10 %

Charpy impact strength

ISO 179-1/1eU

23°C | d.a.m.

50 kJ/m²

Thermal Properties

Temperature of deflection under load HDT/A

ISO 75

1,8 MPa

205 °C

Melting temperature

ISO 11357-3

DSC, 10K/min

220 °C

General Properties

Density ISO 1183	23°C	1,32 g/cm³
Humidity absorption ISO 1110	70°C, 62% r.H.	0,7 - 0,8 %
Molding shrinkage ISO 294-4	flow	0,7 - 0,9 %
	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	0 - 4 h
	Drying temperature ($\tau \leq -30^{\circ}\text{C}$)	80 °C
	Processing moisture	0,02 - 0,1 %
1	Feed section	60 - 80 °C
2	Temperature Zone 1 - Zone 4	220 - 260 °C
3	Nozzle temperature	230 - 260 °C
4	Melt temperature	230 - 260 °C
5	Mold temperature	60 - 120 °C
→	Holding pressure, spec.	300 - 800 bar
←	Back pressure, spec.	30 - 70 bar
	Injection speed	medium to high
	Screw speed	8 - 15 m/min