

Compound No.: 8699

# PRECITE® PRELIMINARY K GF 30 4 LA ECO black (8699)

PBT-PET- GF 30

PRECITE® K GF 30 4 ECO black (8699) is a 30% glass fibre reinforced, hydrolysis stabilised PBT/PET blend with high strength. Due to its low moisture absorption, this material is particularly suitable for precision parts in the automotive, E&E or appliances industries. The formulations of the sustainable ECO products are partly based on regenerated post-consumer feedstock and thus contribute to reducing the consumption of valuable raw materials

# hydrolysis / chemically stabilised recycled content reduced moisture E&E Sports & leisure Properties Modulus Strength Impact 9.500 MPa 120 MPa 65 kJ/m²

### **Sustainability**

Recycled content		25 %
Mechanical Properties		
Tensile modulus ISO 527-2	1 mm/min   d.a.m.	9500 MPa
Tensile stress at break ISO 527-2	5 mm/min   d.a.m.	120 MPa
Tensile strain at break ISO 527-2	5 mm/min   d.a.m.	3 %
Charpy impact strength	23°C   d.a.m.	65 kJ/m²
ISO 179-1/1eU	-30°C   d.a.m.	65 kJ/m²
Charpy notched impact strength ISO 179-1/1eA	23°C   d.a.m.	17 kJ/m²



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# **Thermal Properties**

Melting temperature	DSC. 10K/min	245 °C
ISO 11357-3	D3C, 1010/111111	245 €

## **General Properties**

Density ISO 1183	23°C	1,47 g/cm³
Humidity absorption ISO 1110	70°C, 62% r.H.	0,1 - 0,3 %
Molding shrinkage	flow	0,2 - 0,4 %
ISO 294-4	transverse	0,7 - 0,9 %

## **Electrical Properties**

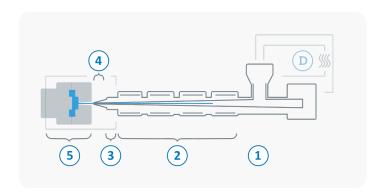
Comparative tracking index IEC 60112	Test liquid A	550 V
IEC 60112		





### **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 (τ <= -30°C)	120 - 140 °C
	Processing moisture	0,02 %
1	Feed section	60 - 80 °C
2	Temperature Zone 1 - Zone 4	260 - 280 °C
3	Nozzle temperature	260 - 290 °C
4	Melt temperature	270 - 280 °C
5	Mold temperature	80 - 100 °C
$\ominus$	Holding pressure, spec.	300 - 800 bar
$\bigcirc$	Back pressure, spec.	30 - 100 bar
	Injection speed	medium to high
	Screw speed	8 - 15 m/min