

Compound No.: 7395

PRECITE® PRELIMINARY E GF 50 black (7395)

PET GF50

PRECITE® E GF 50 black (7395) is a 50% glass fibre reinforced, medium viscous polyethylene terephthalate (PET) with very high stiffness and toughness even at elevated temperatures. Due to its low moisture absorption, this material is particularly dimensionally stable and therefore perfectly suitable for precision parts in the automotive, E&E and household goods industries, where a very good surface finish is required.

surface modified reduced moisture E&E metal substitution Sports & leisure Properties Modulus Strength Impact 18.000 MPa 210 MPa 60 kJ/m²

Mechanical Properties

Tensile modulus ISO 527-2	1 mm/min d.a.m.	18000 MPa
Tensile stress at break ISO 527-2	5 mm/min d.a.m.	210 MPa
Tensile strain at break ISO 527-2	5 mm/min d.a.m.	1,7 %
Charpy impact strength ISO 179-1/1eU	23°C d.a.m.	60 kJ/m²
Charpy notched impact strength ISO 179-1/1eA	23°C d.a.m.	11 kJ/m²

Thermal Properties

Temperature of deflection under load HDT/A	1.8 MPa	235 °C
ISO 75	1,5 1411 4	255 C



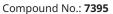
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Melting temperature	DSC. 10K/min	250 °C
ISO 11357-3	<i>55</i> C, 1010111111	250 €

Flammability

General Properties

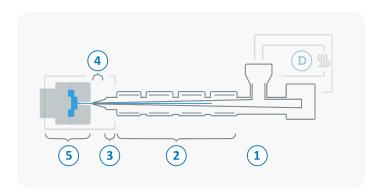
Density ISO 1183	3°C 1,75 g/cm³
Molding shrinkage floo	ow 0,1 - 0,3 %
ISO 294-4 tra	ransverse 0,5 - 0,7 %





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
I	Drying temperature (τ <= -30°C)	120 - 140 °C
ı	Processing moisture	0,02 %
1 1	Feed section	60 - 80 °C
2 1	Temperature Zone 1 - Zone 4	270 - 290 °C
3 1	Nozzle temperature	270 - 295 °C
4 1	Melt temperature	270 - 290 °C
5 1	Mold temperature	130 - 160 °C
→ I	Holding pressure, spec.	300 - 800 bar
(-)	Back pressure, spec.	30 - 100 bar
I	Injection speed	medium to high
9	Screw speed	8 - 15 m/min



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Diagrams

