

OMNICARB® PBT FR GF10R BK1100

Rheological properties

Moulding shrinkage, parallel	%	ISO 294-4, 2577
Moulding shrinkage, normal	%	ISO 294-4, 2577

Typical mechanical properties

Tensile Modulus	3500 MPa	ISO 527-1/-2
Stress at break, 5mm/min	52 MPa	ISO 527-1/-2
Strain at break, 5mm/min	5 %	ISO 527-1/-2
Flexural Modulus	3000 MPa	ISO 178
Flexural Modulus	8270 MPa	ASTM D 790
Flexural Strength	83 MPa	ISO 178
Flexural Strength	196 MPa	ASTM D 790
Izod notched impact strength, 23°C	11 kJ/m ²	ISO 180/1A

Thermal properties

Temp. of deflection under load, 1.8 MPa	90 °C	ISO 75-1/-2
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Flammability

Burning Behav. at thickness h	5VA class	UL 94
Thickness tested	2.50 mm	UL 94

Other properties

Density	1520 kg/m ³	ISO 1183
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Injection

Drying Temperature	120 - 130 °C
Drying Time, Dehumidified Dryer	4 h
Processing Moisture Content	0.02 %
Max. mould temperature	65 - 93 °C
Back pressure	MPa
Injection speed	medium-fast

