

CARBON FIBRE REINFORCED POLYCARBONATE

PC-CF Filament

1.75 mm · 1 kg spool · ± 0.05 mm tolerance

Carbon fibre reinforced polycarbonate for strong, heat resistant engineering parts with a matte finish.

✓ HDT 125 °C

✓ Carbon fibre reinforced

✓ Hardened steel nozzle required

✓ Enclosure recommended

Recommended Print Settings

Nozzle temperature	260–300 °C 280 °C recommended
Bed temperature	100–120 °C 110 °C recommended
Print speed	40–60 mm/s 50 mm/s recommended
Support material	PC-CF (self supported)

📘 Use an enclosed printer and a hardened steel nozzle.

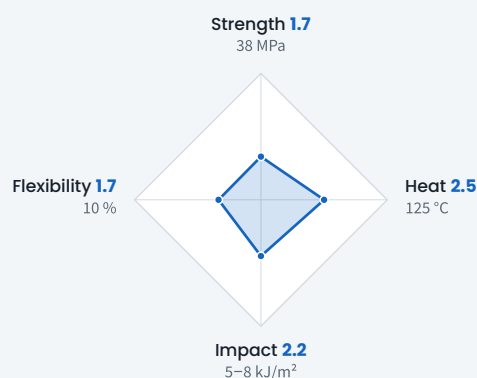
Filament Specifications

Material	Carbon fibre reinforced polycarbonate
Diameter	1.75 mm
Diameter tolerance	± 0.05 mm
Net filament weight	1 kg

Spool & Packaging

Empty spool weight	150 g
Spool with filament	1.15 kg
Spool outer diameter	200 mm
Hub diameter	52 mm
Spool width	65 mm
Shipping weight	1.3 kg
Box dimensions	210 × 220 × 75 mm

Property Profile



Scores from 1 to 5 relative to the OzFDM filament range, based on the typical values in this sheet (stiffness and impact on a log scale).

Stiffness not shown: no typical value listed.

Storage & Handling

Drying

80 °C for a minimum of 12 hours in a filament dryer or food dehydrator.

Storage

Airtight bag or container with desiccant in a cool, dark and dry area to prevent moisture absorption. For optimal long term storage we recommend drying the filament prior to sealing the filament spool in a vacuum bag with desiccant.

Mechanical Properties

PROPERTY	TEST METHOD	TYPICAL VALUE
Tensile strength	ISO 527	38 MPa
Elongation at break	ISO 527	10 %
Flexural strength	ISO 178	85 MPa
Impact strength	ISO 180	5–8 kJ/m ²

Physical Properties

PROPERTY	TEST METHOD	TYPICAL VALUE
Density	ISO 1183	1.20–1.25 g/cm ³
Melt flow rate	ISO 1133	5–7 g/10min
Moisture absorption (23 °C, 24 h)	ISO 62	<0.5 %

Thermal Properties

PROPERTY	TEST METHOD	TYPICAL VALUE
Heat deflection temperature (0.455 MPa)	ISO 75	125 °C
Continuous use temperature	IEC 60216	120–130 °C

Available Colours 1



Carbon Fibre
Black

Swatches are indicative only. Colours vary between screens and with print settings.

NOTES

Values shown are typical results measured on test specimens and are provided for guidance only. They are not guaranteed specifications and should not be used as design limits. Printed part properties vary with printer, settings, print orientation and part geometry. Test your parts for suitability before use in critical applications.