

CARBON FIBRE REINFORCED PETG

PETG-CF Filament

1.75 mm · 1 kg spool · ±0.05 mm tolerance

PETG reinforced with chopped carbon fibre for higher stiffness and lower shrinkage, with a matte, textured finish that hides layer lines.

- ✓ Stiffer than PETG
- ✓ Matte finish hides layer lines
- ✓ Low shrinkage and warping
- ✓ Hardened steel nozzle required

Recommended Print Settings

Nozzle temperature	230–250 °C 240 °C recommended
Bed temperature	50–80 °C 70 °C recommended
Print speed	40–60 mm/s 50 mm/s recommended
Support material	PETG-CF (self supported)

Use a hardened steel nozzle, moderate part cooling and thoroughly dried filament.

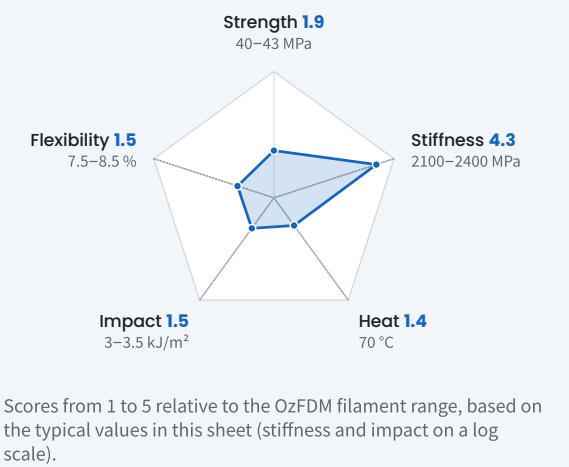
Filament Specifications

Material	Carbon fibre reinforced PETG
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



Storage & Handling

Drying
70 °C for a minimum of 5 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	40–43 MPa
Elongation at break	ISO 527	7.5–8.5 %
Tensile modulus	ISO 527	2100–2400 MPa
Flexural strength	ISO 178	75–85 MPa
Impact strength	ISO 180	3–3.5 kJ/m²

Physical Properties

PROPERTY	TEST METHOD	TYPICAL VALUE
Density	ISO 1183	1.27–1.28 g/cm³
Melt flow rate (220 °C, 2.16 kg)	ISO 1133	10–15 g/10min
Moisture absorption (23 °C, 24 h)	ISO 62	<0.8 %

Thermal Properties

PROPERTY	TEST METHOD	TYPICAL VALUE
Heat deflection temperature (0.455 MPa)	ISO 75	70 °C
Continuous use temperature	IEC 60216	80 °C

Available Colours 7

						
Carbon Fibre Black	Grass Green	Volcanic Rock Grey	Dusty Pink	Iris Purple	Sailor Blue	Carbon Fibre Red

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.