



PETG-CF Filament

1.75 mm · 1 kg spool

OzFDM PETG-CF filament is an advanced 3D printing material, offering superior strength and resistance due to its carbon fibre reinforcement. This 1.75mm filament has a diameter tolerance of $\pm 0.05\text{mm}$, and comes in a 1KG spool for long-term use. It's the perfect choice for engineering, automotive, and other industrial applications.

✓ Carbon fibre reinforced

✓ Superior strength & stiffness

✓ Engineering & industrial parts

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 support)
Drying	70 °C for ≥ 5 h

FILAMENT SPECIFICATIONS

Diameter	1.75 mm
Dimensional tolerance	± 0.05 mm
Net weight	1 kg
Density	1.27 – 1.28 g/cm ³

SPOOL & PACKAGING

Empty spool weight	150 g
Full spool weight	1.15 kg
Spool outer diameter	200 mm
Spool hub diameter	52 mm
Spool width	65 mm
Shipping weight	1.3 kg
Box dimensions	210 × 210 × 75 mm

AVAILABLE COLOURS (7)



Carbon Fibre



Grass Green

Volcanic Rock
Grey

Dusty Pink



Iris Purple



Sailor Blue



Red

MECHANICAL PROPERTIES

Tensile Strength ISO 527	40 – 43 MPa
Elongation at Break ISO 527	7.5 – 8.5 %
Flexural Modulus ISO 527	2100 – 2400 MPa
Flexural Strength ISO 178	75 – 85 MPa
Impact Strength ISO 180	3 – 3.5 kJ/m ²

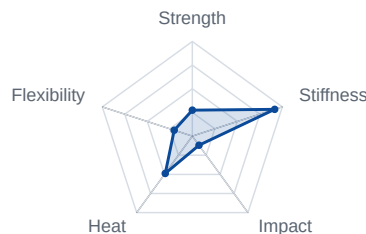
THERMAL & PHYSICAL PROPERTIES

Heat deflection (0.455 MPa) ISO 75	70 °C
Continuous Use Temperature IEC 60216	80 °C
Melt flow rate (250 °C/2.16 kg) ISO 1133	10 – 15 g/10 min
Moisture absorption (23 °C/24 h) ISO 62	< 0.8 %

STORAGE & HANDLING

Airtight bag or container with desiccant in a cool, dark, dry place. For long-term storage, dry the filament before vacuum-sealing it with desiccant.

PROPERTY PROFILE



Relative to the OzFDM filament range