



PPA-CF Filament

1.75 mm · 1 kg spool

OzFDM PPA-CF is a superior quality carbon fibre reinforced Polyphthalamide (Nylon) filament with excellent heat resistance of up to 220°C. Toughness and vibration resistance. It is made from 85% Nylon and 15% carbon fibre. For best results, anneal for 3 hours between 80 - 100°C after printing.

✓ 15% carbon fibre PPA

✓ Heat resistant to 220 °C

✓ Tough & vibration resistant

✓ Anneal 3 h @ 80 – 100 °C

RECOMMENDED PRINT SETTINGS

Nozzle temperature	260 – 290 °C (280 °C recommended)
Bed temperature	70 – 100 °C (90 °C recommended)
Print speed	40 – 150 mm/s (80 mm/s recommended)
Support material	PVA
Drying	100 °C for ≥ 5 h

FILAMENT SPECIFICATIONS

Diameter	1.75 mm
Dimensional tolerance	± 0.05 mm
Net weight	1 kg
Density	1.22 – 1.23 g/cm³

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 (1)



Carbon Fibre

MECHANICAL PROPERTIES

Tensile Strength ISO 527	230 – 250 MPa
Elongation at Break ISO 527	2 – 3 %
Flexural Modulus ISO 527	5300 – 5500 MPa
Flexural Strength ISO 178	250 – 280 MPa
Impact Strength ISO 180	30 – 40 kJ/m²

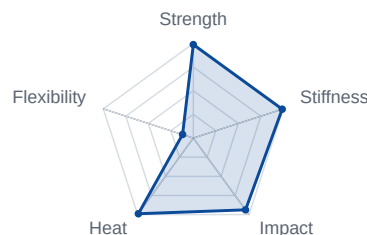
THERMAL & PHYSICAL PROPERTIES

Heat deflection (0.455 MPa) ISO 75	220 °C
Melt flow rate (250 °C/2.16 kg) ISO 1133	3 – 6 g/10 min
Moisture absorption (23 °C/24 h) ISO 62	< 0.1 %

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