



PA6-CF Filament

1.75 mm · 1 kg spool

OzFDM PA6-CF is a superior quality carbon fibre reinforced Nylon6 filament with excellent heat resistance of up to 200°C. It is made from 85% Nylon and 15% carbon fibre and has been produced with LUVOCOM 3F PAHT CF. For best results, anneal for 3 hours between 80 - 100°C after printing.

✓ 15% carbon fibre Nylon 6

✓ Heat resistant to 200 °C

✓ LUVOCOM 3F PAHT CF base

✓ Anneal 3 h @ 80 – 100 °C

RECOMMENDED PRINT SETTINGS

Nozzle temperature	270 – 290 °C (280 °C recommended)
Bed temperature	60 – 90 °C (80 °C recommended)
Print speed	40 – 60 mm/s (50 mm/s recommended)
Support material	PVA
Drying	80 °C for ≥ 12 h

FILAMENT SPECIFICATIONS

Diameter	1.75 mm
Dimensional tolerance	± 0.05 mm
Net weight	1 kg
Density	1.24 – 1.26 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

MECHANICAL PROPERTIES

Tensile Strength ISO 527	60 – 65 MPa
Elongation at Break ISO 527	6 – 6.5 %
Flexural Modulus ISO 527	4900 – 5000 MPa
Flexural Strength ISO 178	N/A
Impact Strength ISO 180	7.5 – 8 kJ/m ²

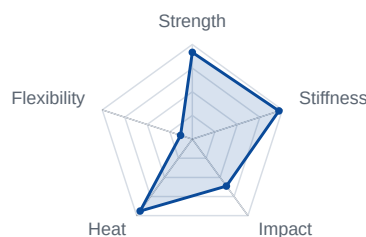
THERMAL & PHYSICAL PROPERTIES

Heat deflection (0.455 MPa) ISO 75	200 °C
Continuous Use Temperature IEC 60216	150 °C
Use Temperature(200 hours)	180 °C
Melt flow rate (250 °C/2.16 kg) ISO 1133	3 – 6 g/10 min
Moisture absorption (23 °C/24 h) ISO 62	< 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

AVAILABLE COLOURS (1)



Carbon Fibre