



PA12-CF Filament

1.75 mm · 1 kg spool

OzFDM PA12-CF is a high-performance nylon material, consisting of 85% LUVOCOM 3F PAHT CF Nylon12 and 15% carbon fibre. Offering excellent strength, stiffness and heat resistance, it's ideal for demanding applications. Post-printing, annealing for 3 hours at 80-100°C is recommended for optimal results.

✓ 15% carbon fibre Nylon 12

✓ Excellent strength & stiffness

✓ High heat resistance

✓ Anneal 3 h @ 80 – 100 °C

RECOMMENDED PRINT SETTINGS

Nozzle temperature	260 – 280 °C (270 °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	1.23 – 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	50 – 55 MPa
Elongation at Break ISO 527	3.5 – 4.5 %
Flexural Modulus ISO 527	1300 – 1500 MPa
Flexural Strength ISO 178	90 – 96 MPa
Impact Strength ISO 180	3.5 – 5 kJ/m ²

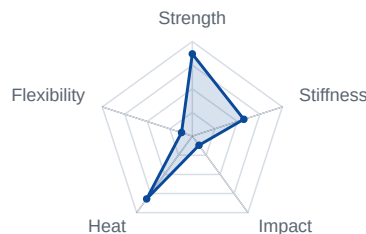
THERMAL & PHYSICAL PROPERTIES

Heat deflection (0.455 MPa) ISO 75	90 °C
Continuous Use Temperature IEC 60216	120 °C
Use Temperature(200 hours)	160 °C
Melt flow rate (250 °C/2.16 kg) ISO 1133	3 – 6 g/10 min
Moisture absorption (23 °C/24 h) ISO 62	< 0.3 %

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



AVAILABLE COLOURS (1)



Carbon Fibre