



PolyCarbonate Filament

1.75 mm · 1 kg spool

Experience superior heat resistance with the OzFDM PC 1.75mm $\pm$ 0.05 1KG filament. Featuring a heat deflection temperature of 123° Celsius, this polycarbonate filament is an ideal choice for producing 3D-printed components that require exceptional heat resistance. It's the perfect choice for precision engineering projects.

✓ Heat deflection 123 °C

✓ Exceptional heat resistance

✓ Precision engineering parts

RECOMMENDED PRINT SETTINGS

Nozzle temperature	240 – 260 °C (250 °C recommended)
Bed temperature	100 – 120 °C (110 °C recommended)
Print speed	40 – 60 mm/s (50 mm/s recommended)
Support material	PC (Self Supported)
Drying	80 °C for $\geq$ 12 h

FILAMENT SPECIFICATIONS

Diameter	1.75 mm
Dimensional tolerance	$\pm$ 0.05 mm
Net weight	1 kg
Density	1.20 – 1.21 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 (3)



Natural



Black



White

MECHANICAL PROPERTIES

Tensile Strength ISO 527	40 – 45 MPa
Elongation at Break ISO 527	7 – 9 %
Flexural Modulus ISO 527	1800 – 1950 MPa
Flexural Strength ISO 178	83 – 87 MPa
Impact Strength ISO 180	4.5 – 5 kJ/m ²

THERMAL & PHYSICAL PROPERTIES

Heat deflection (0.455 MPa) ISO 75	123 °C
Continuous Use Temperature IEC 60216	130 °C
Melt flow rate (250 °C/2.16 kg) ISO 1133	3 – 5 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

