



High Speed PLA Filament

1.75 mm · 1 kg spool

OzFDM High Speed PLA 3D printing filament is specially produced with modified, toughened PLA for maximum strength and usability with most FDM printers. This filament offers exceptional bed and layer adhesion, no warping/cracking, and remarkable dimensional stability; all within strict QA standards.

✓ Tuned for high-speed printing

✓ Excellent bed & layer adhesion

✓ Toughened PLA

RECOMMENDED PRINT SETTINGS

Nozzle temperature	190 – 220 °C
Bed temperature	25 – 60 °C
Print speed	60 – 350 mm/s
Support material	PVA, PETG (interface)
Drying	40 – 45 °C for 4 – 6 h

FILAMENT SPECIFICATIONS

Diameter	1.75 mm
Dimensional tolerance	± 0.03 mm
Net weight	1 kg
Density	1.25 – 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(X-Y) ISO 527	45 – 49 MPa
Tensile Strength(X-Z) ISO 527	35 – 40 MPa
Elongation at Break(X-Y) ISO 527	10.5 – 15.5 %
Elongation at Break(X-Z) ISO 527	5 – 8 %
Flexural Modulus(X-Y) ISO 527	2000 – 2100 MPa
Flexural Modulus(X-Z) ISO 527	1950 – 2050 MPa
Flexural Strength(X-Y) ISO 178	70 – 80 MPa
Impact Strength(X-Y) ISO 180	4.5 – 5 kJ/m ²

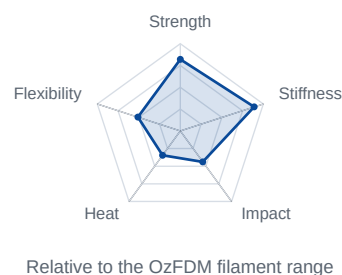
THERMAL & PHYSICAL PROPERTIES

Heat deflection (0.455 MPa) ISO 75	53 °C
Continuous Use Temperature IEC 60216	50 °C
Melt flow rate (250 °C/2.16 kg) ISO 1133	10 – 20 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 (26)

