



PA6 Nylon Filament

1.75 mm · 1 kg spool

OzFDM PA6 (Nylon) 1.75mm 1KG is a 3D printing filament made of PA6 (Nylon), providing excellent temperature and corrosion resistance, superior wear and oil resilience, and outstanding mechanical strength. Ideal for engineering projects that demand toughness and durability.

✓ Outstanding mechanical strength

✓ Excellent wear & oil resistance

✓ Good temperature & corrosion resistance

RECOMMENDED PRINT SETTINGS

Nozzle temperature	240 – 280 °C (270 °C recommended)
Bed temperature	80 – 110 °C (100 °C recommended)
Print speed	40 – 60 mm/s (50 mm/s recommended)
Support material	PA6 (Self Support), PVA
Drying	80 °C for ≥ 12 h

FILAMENT SPECIFICATIONS

Diameter	1.75 mm
Dimensional tolerance	± 0.05 mm
Net weight	1 kg
Density	1.01 – 1.06 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 (2)



Black



White

MECHANICAL PROPERTIES

Tensile Strength ISO 527	55 – 58 MPa
Elongation at Break ISO 527	32 – 36 %
Flexural Modulus ISO 527	1350 – 1450 MPa
Flexural Strength ISO 178	84 – 87 MPa
Impact Strength ISO 180	88.5 – 87 kJ/m ²

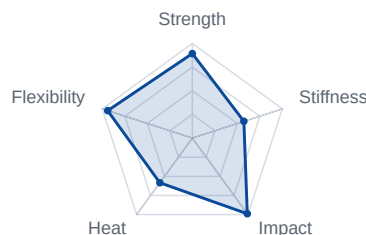
THERMAL & PHYSICAL PROPERTIES

Heat deflection (0.455 MPa) ISO 75	85 °C
Melt flow rate (250 °C/2.16 kg) ISO 1133	2 – 5 g/10 min
Moisture absorption (23 °C/24 h) ISO 62	3.2 %

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