



PLA Metal Filament

1.75 mm · 1 kg spool

Elevate your 3D prints with our innovative Nano-Metal Powder Filled PLA filament! This 1.75mm diameter, 1kg spool offers exceptional printability of PLA combined with the unique aesthetic of real metal. The infused nano-metal particles create a smooth, metallic surface finish on your prints, adding a touch of industrial chic or a futuristic flair to your creations.

✓ Real nano-metal particle fill

✓ Metallic surface finish

✓ Prints like PLA

RECOMMENDED PRINT SETTINGS

Nozzle temperature	190 – 220 °C
Bed temperature	25 – 60 °C
Print speed	60 – 90 mm/s
Support material	PVA
Drying	40 – 45 °C for 4 – 6 h

FILAMENT SPECIFICATIONS

Diameter	1.75 mm
Dimensional tolerance	± 0.03 mm
Net weight	1 kg
Density	1.26 – 1.28 g/cm³

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	40 – 45 MPa
Elongation at Break ISO 527	3 – 5 %
Flexural Modulus ISO 527	1000 – 1100 MPa
Flexural Strength ISO 178	50 – 60 MPa
Impact Strength ISO 180	4.5 – 5 kJ/m²

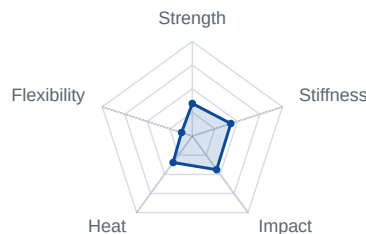
THERMAL & PHYSICAL PROPERTIES

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	20 – 30 g/10 min
Moisture absorption (23 °C/24 h) ISO 62	< 0.5 %

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 (3)



Aluminium



Copper



Bronze