

PHOSPHORESCENT PLA

Glow in the Dark PLA Filament

1.75 mm · 1 kg spool · ± 0.03 mm tolerance

PLA with phosphorescent pigment that charges in light and glows in the dark, for signs, toys and novelty prints.

- ✓ Glows after charging in light
- ✓ Hardened nozzle recommended
- ✓ Standard PLA temperatures
- ✓ No enclosure needed

Recommended Print Settings

Nozzle temperature	190–220 °C
Bed temperature	25–60 °C
Print speed	60–90 mm/s
Support material	PVA (as support interface)

- i** The glow pigment is slightly abrasive, so a hardened steel nozzle is recommended.

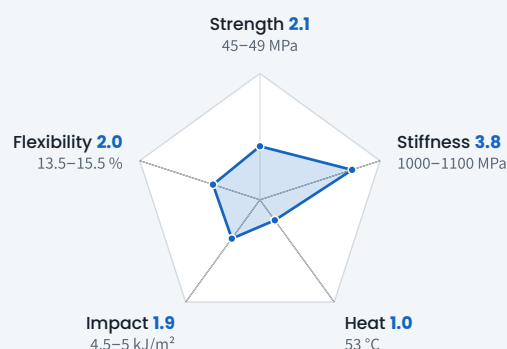
Filament Specifications

Material	Phosphorescent PLA
Diameter	1.75 mm
Diameter tolerance	± 0.03 mm
Net filament weight	1 kg

Spool & Packaging

Empty spool weight	150 g
Spool with filament	1.15 kg
Spool outer diameter	200 mm
Hub diameter	52 mm
Spool width	65 mm
Shipping weight	1.3 kg
Box dimensions	210 × 220 × 75 mm

Property Profile



Scores from 1 to 5 relative to the OzFDM filament range, based on the typical values in this sheet (stiffness and impact on a log scale).

Storage & Handling

Drying
40–45 °C for 4–6 hours in a filament dryer or food dehydrator.

Storage
Airtight bag or container with desiccant in a cool, dark and dry area to prevent moisture absorption. For optimal long term storage we recommend drying the filament prior to sealing the filament spool in a vacuum bag with desiccant.

Mechanical Properties

PROPERTY	TEST METHOD	TYPICAL VALUE
Tensile strength	ISO 527	45–49 MPa
Elongation at break	ISO 527	13.5–15.5 %
Tensile modulus	ISO 527	1000–1100 MPa
Flexural strength	ISO 178	69–75 MPa
Impact strength	ISO 180	4.5–5 kJ/m ²

Physical Properties

PROPERTY	TEST METHOD	TYPICAL VALUE
Density	ISO 1183	1.25–1.26 g/cm ³
Melt flow rate (190 °C, 2.16 kg)	ISO 1133	4–8 g/10min
Moisture absorption (23 °C, 24 h)	ISO 62	<0.3 %

Thermal Properties

PROPERTY	TEST METHOD	TYPICAL VALUE
Heat deflection temperature (0.455 MPa)	ISO 75	53 °C
Continuous use temperature	IEC 60216	50 °C

Available Colours

8



Green



Red



Blue



Sky Blue



Purple



Orange



Galaxy Green



Galaxy Blue

Swatches are indicative only. Colours vary between screens and with print settings.

NOTES

Values shown are typical results measured on test specimens and are provided for guidance only. They are not guaranteed specifications and should not be used as design limits. Printed part properties vary with printer, settings, print orientation and part geometry. Test your parts for suitability before use in critical applications.