

PLA Glow in the Dark

MATERIAL PROPERTIES

Specific Gravity	1.24 g/cm ³	D 792
MFR (210°C, 2.16kg)	6 g/10min	D 1238

Mechanical Properties

Tensile Strength at Break	53 MPa	D 882
Tensile Yield Strength	60 MPa	D 882
Tensile Modulus	3.5 GPa	D 882
Tensile Elongation	6,00%	D 882
Notched Izod Impact	16 J/m	D 256
Flexural Strength	83 MPa	D790
Flexural Modulus	3.8 MPa	D790

Thermal Properties

Heat Distortion Temperature	55°C	E 2092
Glass Transition Temperature	55-60°C	D3418

GUIDELINE FOR PRINT SETTINGS*

Nozzle temperature	185-225°C
Bed temperature	0-45°C
Active cooling fan	YES (up to 100%)
Layer height**	0.05 - 0.30 mm
Shell thickness**	0.40 - 2.70 mm
Print speed**	40-110 mm/s
Closed chamber	not necessary
Dry box	not necessary
Ruby or hardened nozzle	recommended

* settings are based on a 0,4 mm nozzle.

** depending on the geometrical complexity

DESCRIPTION

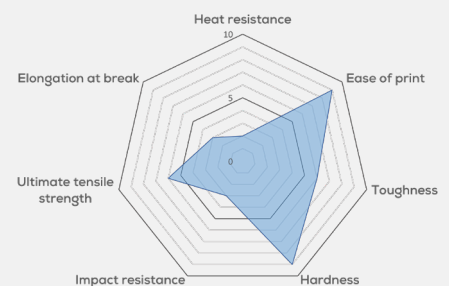
Spectrum PLA Glow in the Dark is a PLA-based filament blended with a concentrated phosphorescent pigment which causes the phosphorescence effect. Accordingly, once the printed items are exposed to an external light source, they will emit their own light. The material has all the typical characteristics of the pure PLA – the added pigment has a neutral impact on the material's properties.

FEAUTURES

- unbelievably strong after-glow effect
- high aesthetic surface quality
- warp-free printing
- perfect layer adhesion

STORAGE AND SHELF LIFE

Filament should be stored in a dry room at room temperature. Recommended storage temperature is ca. 18-25°C (64.4 -77.0°F). Keep out of moisture, sunlight and direct heat. When stored properly, product has a shelf life of 24 months.



SUPPORT

If you have any questions or experience any issues, please do not hesitate to contact us at support@spectrumfilaments.com