

PET-G Glow in the Dark

MATERIAL PROPERTIES

Specific Gravity	1.27 g/cm ³	D 792
Mechanical Properties		
Tensile Stress at Yield	26 MPa	D 638
Tensile Stress at Break	48 MPa	D 638
Elongation at Break	58,00%	D 638
Elongation at Yield	4,30%	D 638
Tensile Modulus	1950 MPa	D 638
Flexural Strength	64 MPa	D 790
Flexural Modulus	1880 MPa	D 790
Rockwell Hardness, R Scale	108	D 785
Izod Impact Strength, Notched @ 23°C	126 J/m	D 256
Izod Impact Strength, Notched @ -40°C	57 J/m	D 256
Thermal Properties		
Heat Deflection Temperature	70°C	D 648

GUIDELINE FOR PRINT SETTINGS*

Nozzle temperature	230-255°C
Bed temperature	60-80°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

Disclaimer

The product- and technical data provided in this datasheet is correct to the best of Spectrum Group Sp. z o.o. knowledge and are intended for reference and comparison purposes only. They should not be used for design specifications or quality control purposes. Actual values may vary according to printing conditions, model complexity, environmental conditions, etc. The user assumes all responsibility for the use of all information provided and shall verify quality and other properties or any consequence from the use of all such information. Typical values are indicative only and are not to be construed as being binding specifications. Spectrum Group Sp. z o.o. shall not be made liable for any damage, injury or loss induced from the use of Spectrum Group Sp. z o.o. materials in any particular application.

DESCRIPTION

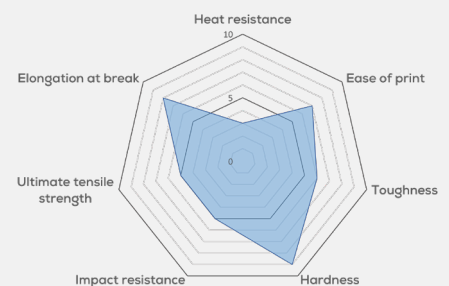
Spectrum PET-G Glow in the Dark is a PET-G-based filament blended with a concentrated phosphorescent pigment which causes the phosphorescence effect. Accordingly, once the printed items are exposed to an external light source, they will emit their own light. The material has all the typical characteristics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