

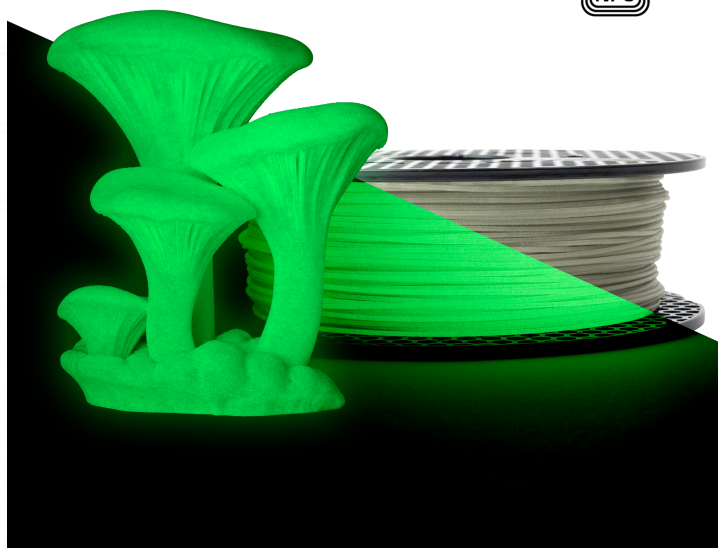
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**PRUSA**  
**POLYMERS**  
by JOSEF PRUSA

## Technical datasheet

### Prusament PETG Ultraglow Green by Prusa Polymers

OpenPrintTag  
compatible



## Identification

Trade Name	Prusament PETG Ultraglow Green
Chemical Name	Polyethylene Terephthalate Glycol Copolymer filled with Strontium Aluminate
Usage	FDM/FFF 3D printing
Diameter	1.75 ± 0.04 mm
Manufacturer	Prusa Polymers a.s., Prague, Czech Republic

## Recommended print settings

Nozzle Temperature [°C]	260 ± 10
Heatbed Temperature [°C]	85 ± 10
Print Speed [mm/s]	up to 200
Cooling Fan Speed [%]	50 (only when printing bridges, it is at 100%)
Bed Type	PP sheet, Satin sheet, Textured sheet
Additional Info	A hardened nozzle is necessary; a 0.6 mm diameter is recommended.

## Typical material properties

	Typical Value	Method
MFR [g/10 min](1)	N/A	ISO 1133
MVR [cm <sup>3</sup> /10 min]	N/A	ISO 1133
Density [g/cm <sup>3</sup> ]	1.5	ISO 1183
Moisture Absorption in 24 hours [%](2)	0.1	Prusa Polymers
Moisture Absorption in 7 days [%](2)	0.15	Prusa Polymers
Heat Deflection Temperature (0.45 MPa) [°C]	91	ISO 75
Heat Deflection Temperature (1.80 MPa) [°C]	78	ISO 75
Tensile Yield Strength for Filament [MPa]	48 ± 1	ISO 527
Hardness - Shore D	77	Prusa Polymers
Interlayer Adhesion [MPa]	20	Prusa Polymers

(1) 230 °C; 2.16 kg

(2) 25 °C; humidity 30 %

## Mechanical properties of 3D printed testing specimens(3)

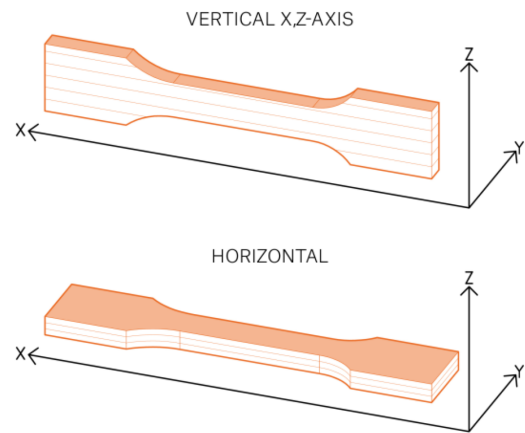
Property\Print Direction	Horizontal	Vertical xz	Method
Tensile Yield Strength [MPa]	42 ± 1	43 ± 0	ISO 527-1
Tensile Modulus [GPa]	1.9 ± 0.0	1.9 ± 0.0	ISO 527-1
Elongation at Yield Point [%]	3.7 ± 0.1	3.9 ± 0.1	ISO 527-1
Flexural Strength [MPa]	59.4 ± 1.3	63.3 ± 0.7	ISO 178
Flexural Modulus [GPa]	2.2 ± 0.1	2.2 ± 0.1	ISO 178
Deflection at Flexural Strength [mm]	7 ± 0	7 ± 0	ISO 178
Impact Strength Charpy [kJ/m <sup>2</sup> ](4)	11 ± 1	10 ± 2	ISO 179-1
Impact Strength Charpy Notched [kJ/m <sup>2</sup> ](5)	Not applicable	Not applicable	ISO 179-1

(3) The Prusa CORE One printer was used to make testing specimens. Prusa Slicer 2.9.3 was used to create G-codes with the following settings:

- Prusament PETG Ultraglow Filament;
  - Print Settings: 0.20 mm (layers 0.20 mm);
  - Solid Layers: Top: 0, Bottom: 0;
  - Perimeters: 2;
  - Infill: 100% rectilinear;
  - Infill Print Speed: 200 mm/s;
  - Nozzle Temperature: 260 °C all layers;
  - Bed Temperature: 85 °C all layers
  - Extrusion multiplier: 1.02;
- Other parameters are left at default values.

(4) Charpy unnotched – Edgewise direction of blow according to ISO 179-1

(5) Charpy notched – Edgewise direction of blow according to ISO 179-1



**Disclaimer:**

The results presented in this data sheet are just for your information and comparison. Values are significantly dependent on print settings, operator experiences, and surrounding conditions. Everyone has to consider suitability and possible consequences of printed parts usage. Prusa Polymers can not carry any responsibility for injuries or any loss caused by using Prusa Polymers material. Before using Prusa Polymers material read properly all the details in the available safety data sheet (SDS).