

Pellet PETG Carbon

MATERIAL PROPERTIES

Specific Gravity	1.32 g/cm ³	ISO 1183
Mechanical Properties		
Charpy impact strength (sample 80x10x4 mm)		
Unnotched, 3D printing	17 kJ/m ²	ISO 179-1eU
Notched, 3D printing	5.4 kJ/m ²	ISO 179-1eU
Tensile elongation at break (3D printing) *	4,90%	ISO 527-1
Tensile strength at break (3D printing) *	45 MPa	ISO 527-1
Elastic modulus 3D printing	4250 MPa	ISO 527-1
Thermal Properties		
VICAT, 50 N (heating rate 50°C/h)	80°C	ISO 306

*speed 5mm/min

GUIDELINE FOR PRINT SETTINGS*

Nozzle temperature	230-255°C
Bed temperature	60-80°C
Active cooling fan	YES (up to 100%)
Closed chamber	not necessary
Dry box	not necessary
Ruby or hardened nozzle	recommended

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

DESCRIPTION

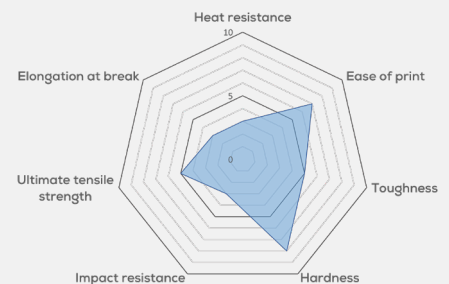
Spectrum Pellet PET-G Carbon is a material that was enriched with carbon fiber, ensuring a significant increase in stiffness, hardness and tensile strength while maintaining low shrinkage and very good adhesion to working platforms typical of pure PET-G. The 10% addition of carbon fiber allows you to obtain matte surfaces of the manufactured elements, which significantly increases the aesthetic value of the printed elements.

FEAUTURES

- improved hardness and rigidity as compared to the pure PET-G
- higher plasticisation temperature as compared to the pure PET-G
- improved abrasion resistance
- much higher compression resistance as compared to the pure PET-G
- good mechanical properties
- high aesthetic, matte surface quality
- no shrinkage after cooling

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