

PCTG GF10

MATERIAL PROPERTIES

| | | |
|------------------------------------|------------------------|-------------|
| Density | 1.31 g/cm ³ | ASTM D792 |
| Mechanical properties | | |
| Elongation at Break | 8,00% | ISO 527 |
| Tensile Strength at Yield | 55 MPa | ISO 527 |
| Tensile Strength at Break | 25 MPa | ISO 527 |
| Izod Impact Strenght | | |
| Unnotched @ 23°C | 45kJ/m ² | ISO 179-1eU |
| Thermal Properties | | |
| Heat Distortion Temperature | | |
| @ 0.455MPa | 78°C | |
| @ 1.820 MPa | 68°C | |
| VICAT Softening Temperature | 77°C | |

GUIDELINE FOR PRINT SETTINGS*

| | |
|-------------------------|----------------|
| Nozzle temperature | 250-270°C |
| Bed temperature | > 50°C |
| Active cooling fan | 50-85% |
| Layer height** | 0.05 - 0.30 mm |
| Shell thickness** | 0.40 - 2.70 mm |
| Print speed** | 30-80 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

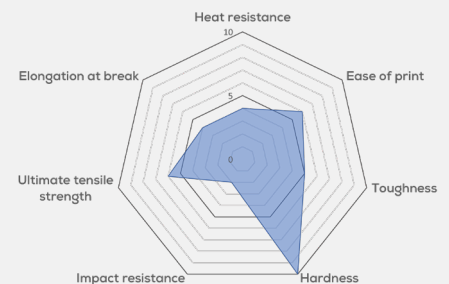
Spectrum PCTG GF10 is a glass fibres reinforced material based on high-impact PCTG. It is a technical filament with high stiffness and hardness. Thanks to its extremely high interlayer adhesion and low shrinkage, it allows even intermediate users to execute large prints. In addition, the glass fibres give the prints a distinctive texture, which, in addition to its undoubted aesthetic qualities, also translates into increased usability.

FEAUTURES

- 10% glass fibers
- high stiffness and tensile strength
- good impact resistance
- high surface quality after printing
- good corrosion resistance
- good chemical resistance and electrical and thermal insulation
- high dimensional accuracy of the printed elements

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