

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	89°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

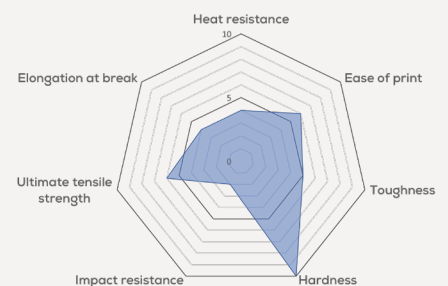
Spectrum PCTG GF10 is a glass fibres reinforced material based on high-impact PCTG. It is a technical filament with high stiffness and hardness. Thanks to its extremely high interlayer adhesion and low shrinkage, it allows even intermediate users to execute large prints. In addition, the glass fibres 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