

## GREENTEC PRO Carbon

### Description

GREENTEC PRO Carbon is made from sustainable resources and is reinforced with high-performance carbon fibers and therefore offers exceptional mechanical properties. It's easy to print with less prone to printing issue caused by water absorption.

### Application

Various applications in motorsports, aerospace or medical.

### Strenghts

- High stiffness
- High quality surface
- Heat resistance up to 165 °C VICAT A / 115 °C HDT/B
- Little warping, easy to print
- UV-resistant h as ASA or PETG

### Storage and Shelf Life

Store at around room temperature (18 to 27 °C [65–80 °F]) and protect from direct heat or sunlight. Values refer to the raw material and may vary depending on the printing direction or settings.

Properties	Test Method	Unit	Value
Tensile modulus (E-Modulus)	ISO 527	MPa	7120
Tensile strength	ISO 527	MPa	65
Elongation at strength	ISO 527	%	3
Stress at break	ISO 527	MPa	58
Nominal elongation at break	ISO 527-2	%	2.5
Notched impact strength	ISO 179/1eA	kJ/m <sup>2</sup>	4.6
Unnotched impact strength	ISO 179/1eU	kJ/m <sup>2</sup>	82
VICAT A (VST)	ISO 306	°C	165
Melting temperature	ISO 3146-C	°C	180-200
MFR	ISO 1133	g/10min	4
HDT/B	ISO 75	°C	115
Shrinking	ISO 297-4	%	0.2
Density	ISO 1183	g/cm <sup>3</sup>	1.2

### Print Settings EVOlizer

Extruder Temperature: 225°C – 240°C  
 Platform Temperature: 50°C  
 Chamber Temperature: 50°C  
 Print Speed: 50mm/s – 80mm/s  
 Print on: PEI, Buildtak  
 Print Speed: 50mm/s – 80mm/s  
 Profil: EL-102 GREENTEC PRO Carbon

**Hardened steel nozzle required. Min. 0,5mm diameter recommended**

