

# MATERIAL DATA SHEET

## GreenTEC Pro Carbon

### DESCRIPTION

GreenTEC Pro Carbon was developed for industrial use. With 10% carbon fiber, it offers higher stiffness, good mechanical properties and increased temperature resistance.

### APPLICATION

GreenTEC Pro Carbon is designed for industrial use. It has very good mechanical properties and a high temperature resistance.

### STORAGE AND SHELF LIFE

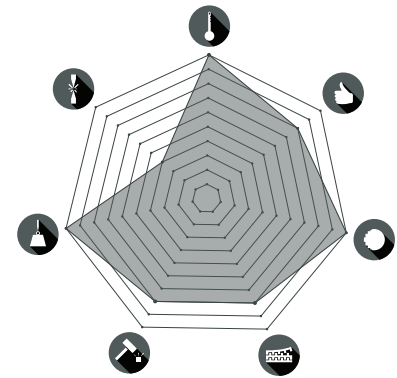
Store at room temperature (18-27°C / 65-80°F) in a dry place. Make sure it is out of direct heat and sunlight. When stored correctly, this material has a shelf life of 2 years.

### PROPERTIES

TEST	METHOD	UNIT	VALUE
Flexural modulus	ISO 527	MPa	7120
Tensile strength	ISO 527	MPa	65
Breaking stress	ISO 527	%	2.5
Breaking atress	ISO 527	MPa	58
Elongation at break	ISO 527	%	2.8
Notched impact strength	ISO 179-1/1 eA	kJ/m <sup>2</sup>	4.6
Impact resistance	ISO 179-171 eU	kJ/m <sup>2</sup>	82
MFR	ISO 1133	g/10 min	9
Melting temperature	ISO 3146-C	°C	190-240
VICAT A (VST)	ISO 306	°C	165*
HDT / B	ISO 75	°C	115*
Shrinking	ISO 294-4	%	0.1
Density	ISO 1183	g/cm <sup>3</sup>	1.15

The use of a hardened steel nozzle with a minimum diameter of 0.5 mm is highly recommended.

\*Temperature resistance at a minimum wall thickness of 4 mm.



	TEMPERATURE RESISTANCE	10
	EASE OF PRINTING	8
	VISUAL QUALITY	10
	LAYER ADHESION	8
	IMPACT RESISTANCE	8
	MAXIMUM STRESS	10
	ELONGATION AT BREAK	4

### TECHNICAL SUPPORT

support@extrudr.com

### PARAMETERS

Nozzle	190-250°C
Heatbed	0-90°C
Speed	40-120 mm/s

### INFORMATION

For more detailed information about this product, please visit [www.extrudr.com/bdp](http://www.extrudr.com/bdp)

