



MATERIAL DATA SHEET

extruder GREENTEC PRO Carbon

DESCRIPTION

GreenTEC PRO Carbon is made from a high-performance and heatresistant renewable biodegradable biopolymer with added 10% black magic carbon fibers.

APPLICATION

GreenTEC PRO Carbon is designed for extreme industrial use. It has very good mechanical and thermal properties.

STORAGE AND SHELF LIFE

Store at room temperature (18-27°C / 65-80°F), out of direct heat and sunlight, and in a dry place. When stored correctly, this material has a shelf life of 1 year

PROPERTIES

TEST	METHOD	UNIT	VALUE
Flexural modulus	ISO 527	MPa	7120
Tensile strength	ISO 527	MPa	65
Breaking stress	ISO 527	%	2.5
Breaking stress	ISO 527	Mpa	58
Elongation at break	ISO 527	%	2.8
Notched impact strength	ISO 179-1/1 eA	kJ/m^2	4.6
Impact resistance	ISO 179-1/1 eU	kJ/m^2	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^3	1.15

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



VISUAL
QUALITY

10



HIGH
TEMPERATURE
RESISTANCE

10



LAYER
ADHESION

8



IMPACT
RESISTANCE

8



ELONGATION
AT BREAK

4



MAXIMUM
STRESS

10



EASE OF
PRINTING

8

TECHNICAL SUPPORT

EMAIL: support@extruder.com

SPOOL DIAGRAM

	L1	L2	d1	d2	d3
	mm	mm	mm	mm	mm
0.8Kg	55	45	52	105	200
1Kg	67	59	52	105	200
2.5Kg	102	90	52	210	300
10Kg	244	210	51	190	335

