

DESCRIPTION

GreenTEC Pro Carbon is a biopolymer made from renewable resources with 10% carbon fiber. The material offers high rigidity, very good mechanical properties and an increased temperature resistance. In addition, the raw material is approved according to the REACH- and RoHS-Standards.

FEATURES

- High stiffness
- Ideal for light-weight applications
- Heat resistance up to 165°C VICAT A / 115°C HDT/B*
- Low warping tendency
- UV-resistant like e.g. ASA or PETG
- Biodegradable (DIN EN ISO 14855)

PROPERTIES 1

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/m²	4.6
Unnotched impact strength	ISO 179/1eU	kj/m²	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 294-4	%	0.2
Density	ISO 1183	g/cm³	1.2

^{*}Temperature resistance tested at a minimum wall thickness of 4 mm.

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

CERTIFICATIONS & ADDITIONAL INFORMATION 2









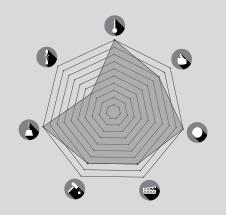
DEGRADABLE



UV-RESISTANT

STORAGE AND SHELF LIFE

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





TEMPERATURE 10 RESISTANCE



EASE OF PRINTING



VISUAL QUALITY 1 N



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TMPACT RESISTANCE



MAXIMUM STRESS



ELONGATION AT BREAK

PRINT SETTINGS

Nozzle 225-250°C Heatbed 60-70°C Adhesive not required Speed 40-60mm/s Cooling 20-50%

Recommended settings for printers with a 0.5mm Nozzle. Max. 50% layerheight. Optimal print settings may vary between different printers and also depend on environmental factors.

NEED HELP?

If you have any question about the product and/or you are experiencing an issue, please contact us via support@extrudr.com



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^{1.} Additional info in our regulatory, additional information and chemical resistance data sheets.

^{2.} Certifications depend on colors in final product. More info in the additional information sheet.