

GreenTEC

General

GreenTEC is a bioplastic that has high tensile and flexural strength.

GreenTEC is an ecological alternative to other technical plastics, consisting of 100% renewable raw materials and biodegradable according to DIN EN ISO 14855.

GreenTEC filament can be processed particularly easily on all standard 3D printers.

Temperatures similar to those of PLA are required for processing.

The heat resistance is 115 °C (VST)

This filament meets the composition requirements of the European Regulation No. 10/2011 on plastic materials for food contact.



advantageous

- biodegradable
- from 100% renewable raw materials
- Odor free
- Little shrinkage
- Good tensile and flexural strength
- Higher temperature resistance than PLA

disadvantageous

- Material price higher than PLA / ABS

Processing data

Printing temperature

180-230 °C

Heated bed temperature

50-90 °C

Drying temperature

80°C

Drying time

2h

Technical specifications

Shrinkage (ISO 294-4, 2577)	0.5	%
MFR (ISO 1133)	4	cm ³ /10min
Yield stress (ISO 527)	46	MPa
Elongation at yield (ISO 527)	3	%
Elongation at break (ISO 527)	14	%
Tensile modulus (ISO 527)	3200	MPa
Heat deflection temperature 0.45 MPa	-	
Vicat softening temperature A (ISO 306)	115	°C
Thermal conductivity 23°C	-	
Flammability	HB	
Density	1.30	g/cm ³

