



TECHNICAL DATA SHEET

GREENTEC

1. DESCRIPTION

GreenTEC comes from our BIO Performance range and has been specially developed for high-performance applications. The material has a heat distortion resistance of 115°C (VST) and is optimised for high impact resistance. It offers a high-quality matte look. GreenTEC is the ecologically harmless alternative to commonly used industrial materials, consisting of 100% renewable raw materials and biodegradable according to DIN EN ISO 14855. In addition, the raw material has food approval (FDA).

2. FEATURES

- 100% sustainable and oil-free
- Matte look
- CO2 neutral
- Biodegradable (DIN EN ISO 14855)
- Heat distortion resistance up to 115°C VICAT A

3. PROPERTIES

TEST	METHOD	UNIT	VALUE	PRINT SETTINGS
Tensile modulus (E-Modulus)	ISO 527	MPa	3200	Nozzle 200-230°C
Tensile strength	ISO 527	MPa	46	Heatbed 20-90°C
Elongation at strenght	ISO 527	%	3	Adhesive not required
Stress at break	ISO 527	MPa	18	Speed 20-200mm/s
Nominal elongation at break	ISO 527-2	%	14	Cooling 30-80%
Notched impact strength	ISO 179/1eA	kJ/m2	19	Enclosed Space no
Unnotched impact strength	ISO 179/1eU	kJ/m2	218	Hardened Nozzle no
VICAT A (VST)	ISO 3146-C	°C	115*	Max. Volumetric Speed 16 mm ³ /s
Melting temperature	ISO 1133	°C	180-200	
MFR	ISO 75	g/10min	8	
Shrinking	ISO 294-4	%	0.5	
Density	ISO 1183	g/cm ³	1.3	

Recommended settings for printers with a 0.4mm Nozzle.
Max. 50% layerheight. Optimal print settings may vary between different printers and also depend on environmental factors.

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

4. CERTIFICATIONS & ADDITIONAL INFORMATION



FDA compliant



RoHS compliant



REACH compliant



FREE of Silicone



DEGRADABLE ISO 14885

Certifications depend on colors in final product. More info in the additional information sheet.

5. 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.

Additional info in our regulatory, additional information and chemical resistance data sheets.