



TECHNICAL DATA SHEET

GREENTEC PRO

1. DESCRIPTION

GreenTEC Pro comes from our BIO Performance range and has been specially developed for ultra-high-performance applications. The material has a heat distortion resistance of 160°C (VST A - 4mm wall thickness) and is optimised for high rigidity and flexural strength. The material offers a high-quality semi-matte look. GreenTEC Pro 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
- Semi-matte look
- Biodegradable (DIN EN ISO 14855)
- Heat distortion resistance up to 160°C VICAT A / 115°C HDT/B*
- Impact strength

3. PROPERTIES

TEST	METHOD	UNIT	VALUE
Tensile modulus (E-Modulus)	ISO 527	MPa	4300
Tensile strength	ISO 527	MPa	58
Elongation at strenght	ISO 527	%	2.8
Stress at break	ISO 527	MPa	53
Notched impact strength	ISO 179/1eA	kJ/m2	4
Unnotched impact strength	ISO 179/1eU	kJ/m2	71
VICAT A (VST)	ISO 306	°C	160*
Melting temperature	ISO 3146-C	°C	180-200
MFR	ISO 1133	g/10min	9
HDT/B	ISO 75	°C	115*
Shrinking	ISO 294-4	%	0.4
Density	ISO 1183	g/cm ³	1.35

PRINT SETTINGS

Nozzle	210-230°C
Heatbed	20-90°C
Adhesive	not required
Speed	20-200mm/s
Cooling	30-80%
Enclosed Space	no
Hardened Nozzle	no
Max. Volumetric Speed	16 mm ³ /s

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.