Technical Data Sheet: CreatBot PET-CF

Print parameters	
Project	**Data**
Pre-printing drying conditions	80-100℃, 6-8 H
Nozzle temperature	280-320℃
Nozzle Diameter	0.4 / 0.6 / 0.8 / 1.0 mm
Print bed surface treatment	3D Printing Spray / PVP Glue Stick / Specialized Adhesive
Print bed temperature	60-80℃
Chamber temperature	/
Cooling fan speed	OFF
Print speed	30-120 mm/s

Physical Properties	Test method	Data
Density	ISO1183	1.30g/cm^3
Saturated water absorption rate	25℃, 55%RH	0.5%
Melt index	270℃, 2.16 kg	6.8g/10 min
Melting temperature	ISO 11357	251℃
Vicat softening temperature	ISO 306,GB/T 1633	/
Determination of temperature	ISO 75 , 0.45MPa	120℃

Mechanical Properties	Test method	Data
Tensile strength XY	ISO 527, GB/T 1040	72 MPa
Tensile strength Z	ISO 527, GB/T 1040	34 MPa
Young's modulus XY	ISO 527, GB/T 1040	5730 MPa
Young's modulus Z	ISO 527, GB/T 1040	3270 MPa
Elongation at break XY	ISO 527, GB/T 1040	2.49%
Elongation at break Z	ISO 527, GB/T 1040	1.20%
Bending strength XY	ISO 178, GB/T 9341	114 MPa
Bending strength Z	ISO 178, GB/T 9341	/
Bending modulus XY	ISO 178, GB/T 9341	5345 MPa
Bending modulus Z	ISO 178, GB/T 9341	/
Impact strength XY	ISO 179, GB/T 1043	7.75 kJ/m²
Impact strength Z	ISO 179, GB/T 1043	/

Disclaimer:

The above material performance data is from the CreatBot Laboratory and is intended solely for reference and comparison.
Actual 3D-printed model performance varies based on multiple factors, such as the printer, printing conditions, model geometry, and slicing software settings.
Users assume full responsibility for the legality and safety of their 3D printing when using CreatBot materials.
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