Technical Data Sheet: CreatBot Ultra PA-GF

Print parameters	
Project	**Data**
Pre-printing drying conditions	80-100℃, 6-8 H
Nozzle temperature	300-320℃
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	70-90℃
Chamber temperature	/
Cooling fan speed	OFF
Print speed	30-120 mm/s

Physical Properties	Test method	Data
Density	ISO1183	1.27g/cm^3
Saturated water absorption rate	25℃, 55%RH	1.75%
Melt index	340℃, 2.16 kg	7.6g/10 min
Melting temperature	DSC, 10℃/ min	237℃
Vicat softening temperature	ISO 306,GB/T 1633	/
Determination of temperature	ISO 75 , 0.45MPa	180℃

Mechanical Properties	Test method	Data
Tensile strength XY	ISO 527, GB/T 1040	86 MPa
Tensile strength Z	ISO 527, GB/T 1040	59 MPa
Young's modulus XY	ISO 527, GB/T 1040	5118 MPa
Young's modulus Z	ISO 527, GB/T 1040	3952 MPa
Elongation at break XY	ISO 527, GB/T 1040	2.71%
Elongation at break Z	ISO 527, GB/T 1040	1.78%
Bending strength XY	ISO 178, GB/T 9341	137 MPa
Bending strength Z	ISO 178, GB/T 9341	/
Bending modulus XY	ISO 178, GB/T 9341	4135 MPa
Bending modulus Z	ISO 178, GB/T 9341	/
Impact strength XY	ISO 179, GB/T 1043	7.97 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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