



## Technical Data Sheet: CreatBot PPS-CF

Print parameters	
Project	Data
Pre-printing drying conditions	100-140°C , 6-8 H
Nozzle temperature	330-350°C
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	100-120°C
Chamber temperature	60-80°C
Cooling fan speed	0-40%
Print speed	< 300mm/s

Physical Properties	Test method	Data
Density	ISO1183-3	1.26g/cm <sup>3</sup>
Saturated water absorption rate	25°C , 55%RH	0.05%
Melt index	340°C , 2.16 kg	20.6g/10 min
Melting temperature	DSC, 10°C/ min	284°C
Vicat softening temperature	ISO 306,GB/T 1633	268°C
Determination of temperature	ISO 75 , 0.45MPa	264°C

Mechanical Properties	Test method	Data
Tensile strength XY	ISO 527, GB/T 1040	93 MPa
Tensile strength Z	ISO 527, GB/T 1040	46 MPa
Young's modulus XY	ISO 527, GB/T 1040	8347 MPa
Young's modulus Z	ISO 527, GB/T 1040	3026 MPa
Elongation at break XY	ISO 527, GB/T 1040	1.8%
Elongation at break Z	ISO 527, GB/T 1040	0.7%
Bending strength XY	ISO 178, GB/T 9341	137 MPa
Bending strength Z	ISO 178, GB/T 9341	62 MPa
Bending modulus XY	ISO 178, GB/T 9341	7402 MPa
Bending modulus Z	ISO 178, GB/T 9341	2885 MPa
Impact strength XY	ISO 179, GB/T 1043	22.3 kJ/m <sup>2</sup>
Impact strength Z	ISO 179, GB/T 1043	8.8 kJ/m <sup>2</sup>

### 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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