

Technical Data Sheet: CreatBot PEEK

Print parameters	
Project	Data
Pre-printing drying conditions	100-120°C , 6-8 H
Nozzle temperature	400-450°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	110-220°C
Chamber temperature	40-60/90-200°C
Cooling fan speed	0-100%
Print speed	30-60 mm/s

Physical Properties	Test method	Data
Density	ISO1183	1.28g/cm ³
Saturated water absorption rate	25°C , 55%RH	/
Melt index	ISO 1133	16g/10min
Melting temperature	IOS 11357	340°C
Vicat softening temperature	ISO 306,GB/T 1633	/
Determination of temperature	ISO 75 , 0.45MPa	150°C

Mechanical Properties	Test method	Data
Tensile strength XY	ISO 527, GB/T 1040	75 MPa
Tensile strength Z	ISO 527, GB/T 1040	/
Young's modulus XY	ISO 527, GB/T 1040	4400 MPa
Young's modulus Z	ISO 527, GB/T 1040	/
Elongation at break XY	ISO 527, GB/T 1040	5.0%
Elongation at break Z	ISO 527, GB/T 1040	/
Bending strength XY	ISO 178, GB/T 9341	115 MPa
Bending strength Z	ISO 178, GB/T 9341	/
Bending modulus XY	ISO 178, GB/T 9341	2500 MPa
Bending modulus Z	ISO 178, GB/T 9341	/
Impact strength XY	ISO 179, GB/T 1043	65 kJ/m ²
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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