

## Technical Data Sheet: CreatBot Ultra ABS

Print parameters	
Project	Data
Pre-printing drying conditions	70-80°C , 6-8 H
Nozzle temperature	240-260°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	80-100°C
Chamber temperature	50°C
Cooling fan speed	0-80%
Print speed	< 300 mm/s

Physical Properties	Test method	Data
Density	ISO1183	1.05g/cm <sup>3</sup>
Saturated water absorption rate	25°C , 55%RH	0.65%
Melt index	260°C , 2.16 kg	34g/10 min
Melting temperature	DSC, 10°C/ min	200°C
Vicat softening temperature	ISO 306,GB/T 1633	93°C
Determination of temperature	ISO 75 , 0.45MPa	85°C

Mechanical Properties	Test method	Data
Tensile strength XY	ISO 527, GB/T 1040	32 MPa
Tensile strength Z	ISO 527, GB/T 1040	28 MPa
Young's modulus XY	ISO 527, GB/T 1040	2180 MPa
Young's modulus Z	ISO 527, GB/T 1040	1930 MPa
Elongation at break XY	ISO 527, GB/T 1040	10.2%
Elongation at break Z	ISO 527, GB/T 1040	4.6%
Bending strength XY	ISO 178, GB/T 9341	60 MPa
Bending strength Z	ISO 178, GB/T 9341	38 MPa
Bending modulus XY	ISO 178, GB/T 9341	1860 MPa
Bending modulus Z	ISO 178, GB/T 9341	1580 MPa
Impact strength XY	ISO 179, GB/T 1043	39 kJ/m <sup>2</sup>
Impact strength Z	ISO 179, GB/T 1043	7.4 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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