



## Technical Data Sheet

## CF - ABS

CF -ABS is an improved Carbon fiber reinforced filament. Compare to the normal ABS, it is an ideal choice for user that wants a part with high modulus, excellent surface quality, dimension stability and lightweight.

High performance CF -ABS filament is based on FFF/FDM technology, with a commonly used diameter of 1.75 mm, 220 - 240°C printing temperature, 100 -110°C bed temperature, having excellent interlayer adhesion which greatly improve the strength and shock resistance of the prototype.

Physical Properties	Standard	Unit	Typical Value
Density	ISO 1183	g/cc	1.0

Mechanical Properties	Standard	Unit	Typical Value
Tensile Strength, Break	ISO 527	MPa	48
Tensile Modulus	ISO 527	MPa	5200
Tensile Elongation, Break	ISO 527	%	3
Flexural Strength	ISO 178	MPa	78
Flexural Modulus	ISO 178	MPa	5280

Thermal Properties	Standard	Unit	Typical Value
Glass Transition Temperature (Tg)	DSC	°C	105
Deflection Temperature at 0.45 Mpa (66psi)	ISO 75	°C	78



Electrical Property	Standard	Unit	Typical Value
Surface Resistance	ASTM D257	Ohm/sq	>10 <sup>9</sup>

Print Recommendation	
Nozzle Temperature	220 - 240 °C
Bed Temperature	100 - 110 °C
Print Speed	30 - 60 mm/s
Chamber Temperature	50 - 70 °C
Cooling Fan	100%