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CARBON FIBRE PLA

Technical Data Sheet

Description	Carbon Fiber Reinforced PLA is a wonderful material, strong, lightweight, excellent layer adhesion and low warp age. Carbon Fiber PLA strength is high compare to other 3d printing materials. It is slightly more brittle then regular PLA.
Key Features	It is slightly more brittle then regular PLA.It is slightly more brittle then regular PLA.It is slightly more brittle then regular PLA.It is slightly more brittle then regular PLA.
Applications	frames, supports, shells, propellers, tools, instruments, RC hobbyists.

1. Identification

Trade name	CARBON FIBRE PLA
Chemical name	CARBON FIBRE & Polylactic Acid
Chemical family	Polymer
Use	Monofilament for 3D printing

2. Filament Processing Parameters

Nozzle Temperature	190 ± 40 °C
Bed Temperature	No Required or 50°C

3. Material Properties – Tensile Test

Test Method: ASTM D 882

Test Parameters	Results
Tensile Strength (MPa)	57.9
Elongation at Break (%)	2
Flexural Strength (MPa)	-
Tensile Modulus (MPa)	4,800
Toughness(KJ/m^2)	12.9
Elongation at Yield(%)	1
Density(g/cm^3)	1.3