

Material Datasheet

Carbon Fiber PETG

Carbon Fiber Filament is not the same as carbon fiber materials. Whereas carbon fiber consists of a continuous strand, the filament is a combination of short carbon fiber strands.

It offers more stiffness, chemical resistance and dimensional stability when compared to traditional unfilled PETG material. Ideal for structural applications.

CF-PETG consist of 20% chopped carbon Fiber (by weight).

Common Applications

- Drones and aerospace
- Automotive prototyping
- Snap fit components

Physical Properties	Standard	Unit	Typical Value
Density	ASTM D792	g/cm ³	1.34
Melt Flow Index	ASTM D1238	g/10 min	20(250°C/2.16Kg)

Mechanical Properties	Standard	Unit	Typical Value
Tensile Strength	ASTM D882	MPa	56
Elongation at Break	ASTM D882	%	3
Flexural Strength	ASTM D790	MPa	80
Flexural Modulus	ASTM D790	MPa	5740
Izod Impact Strength	ASTM D256	KJ/m ²	6

Thermal Properties	Standard	Unit	Typical Value
Glass Transition Temperature (Tg)	ASTM D3418	°C	80