

inFil PETG CF

PETG CF is a carbon fiber reinforced filament designed to manufacture functional parts with increased rigidity, dimensional stability, and a professional finish. It combines the ease of printing of PETG with a significant improvement in mechanical behavior, reducing unwanted flex and improving the accuracy of technical components.

It is the ideal choice when PLA falls short and you need a stronger material without complicating the printing process.

Carbon fiber reduces deformation under load and improves the geometric stability of the part. This allows you to manufacture:

Structural supports

Tooling and jigs

Technical housings

Components subjected to continuous stress

Parts with tight tolerances

Furthermore, it exhibits less warping than other technical materials, facilitating the manufacture of medium and large parts with good repeatability.

The carbon fiber reinforcement provides a uniform matte finish that eliminates the typical gloss of conventional PETG. Layers are better concealed, and the part acquires a clean, technical aesthetic.

It maintains the good layer adhesion characteristic of PETG, with less moisture absorption than other technical materials. This improves consistency in long print runs and reduces variations during printing.

Recommended for users seeking a functional, stable material with a professional finish without resorting to highly complex polymers like nylon or PC.

Physical properties	Conditions	Test Method	Typical Values
Density		ISO 1183	1,32 g/cc
Thermal properties	Conditions	Test Method	Typical Values
Glass transition temperature		ISO 306	77 °C
Mechanical properties	Conditions	Test Method	Typical Values
Tensile strength		ISO 527-1	9000 MPa
Tensile elongation		ISO 527-1	4 %
IZOD	Unnotched	ISO 179	45 KJ/m ²
IZOD	Notched	ISO 179	6,5 KJ/m ²
Parámetros de impresión			Typical Values
Printing Temperature			230 - 240 °C
Heated Bed temperature			80 – 90 °C
Printing speed			< 200 mm/s
Retraction			3 mm
Adhesion			Spray
Parámetros de calidad			Typical Values
Tolerance	max		0,03 mm
Tolerance	media		+/- 0,03 mm
Standard deviation	max		0,02 mm
Ovality	max		2 %

The test values provided in this technical data sheet are to be considered indicative and do not represent any contractual specification. Please note that under certain conditions, properties may be affected. The application, use and processing of our products are the responsibility of the user.