

ePETG-CF

Technical Data Sheet

Adding carbon fiber reinforced materials to PETG and modifying, it strengthens the rigidity and toughness of PETG.

Material Status	Mass Production		
Characteristics	 High strength Wear resistance Impact resistance	Chemical resistance	
Applications	• Aerospace	• Automotive	• Industrial applications
Form	 Filament 		

	testing method	Typical	value
Physical Properties			
Density	GB/T 1033	1.26	g/cm³
Melt Flow Index	GB/T 3682	18.0	(220°C/10KG)
Mechanical Properties			
Tensile Strength	GB/T 1040	24.28	МРа
Elongation at Break	GB/T 1040	4.70	%
Flexural Strength	GB/T 9341	80.34	MPa
Flexural Modulus	GB/T 9341	2951.4	MPa
IZOD Impact Strength	GB/T 1843	1.5	kJ/m²
Thermal Properties			
Heat distortion Temperature	GB/T 1634	70.5°C	(0.45Mpa)
Continuous Service Temperature	IEC 60216	N/A	
Maximum (short term) Use Temperature		N/A	
Electrical Properties			
Insulation Resistance	DIN IEC 60167	N/A	
Surface Resistance	DIN IEC 60093	N/A	

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Recommended printing parameters

Extruder Temperature245 - 265°CBuild Platform Temperature70°CFan Speed40%Printing Speed40-300mm/s

Based on Bambu P1S 0.4 mm nozzle and Orcaslicer1.7.0 Beta. Printing conditions may vary with different

nozzle diameters Drying Recommendations

N/A

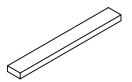
Precautions:

When slicing, it is best to turn on the Z seam alignment and starting point alignment functions, turn off the Z-axis lift and exit, avoid passing through the shell when idling, optimize the slicing printing path, and appropriately reduce the printing speed to achieve the best printing effect.

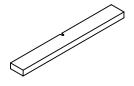
Mechanical Properties







Flexural testing specimen GB/T 9341



Impact testing specimen GB/T 1043

The physical properties, mechanical properties, thermal properties, and electrical properties of the filament are obtained based on the injection molding spline test.

Print test condition:

Extruder Temperature	255°C
Build Platform Temperature	70°C
Outline/Perimeter Shells	2
Top/Bottom Layers	3
Infill Percentage	100%
Fan speed	40%
Maximum volumetric flow rate	4mm/s

Based on Bambu P1S 0.4 mm nozzle and Orcaslicer 2.1.0 Beta.

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