TECHNICAL DATA SHEET

CarbonFil

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Product specifications
CarbonFil is a 15% carbon fiber reinforced PETG based 3D printer filament that is extremely stiff. CarbonFil 3D prints 3D prints with a high dimensional accuracy and virtually no warping.

Important key features
10% more impact resistant than HDglass
Very easy to print
Great dimensional stability

Suitable applications
Automotive
Aviaton & Heavy industry

Recommended pretreatment

Drying	Recommended
	40 - 60 °C
	12 h

Print with	
Enclosure	Yes
Dry box	No

Recommended print settings regular speed

Print speed	25 - 70 mm/s
Nozzle temperature	230 - 275 °C
Bed temperature	80 - 90 °C
Fan speed	0 - 50 %

Material properties	**Typical value**	**Unit of Measure**	**Test method**	**Test condition**
Density				
Specific gravity	1,32	g/cm3	ISO 1183	
Melt flow rate				
Mechanical properties				
Impact strenght	5.4	kJ/m2	ISO 179-1eU	Charpy notched 23°C
Tensile strenght at yield				
Tensile strenght at break	45	MPa	ISO 527-1	
Tensile modulus				
Elongation at yield				
Elongation at break	4,9	%	ISO 527-1	
Flexural strenght				
Flexural modulus	4250	MPa	ISO 527-1	
Rockwell hardness				
Thermal properties				
Melting temperature				
Heat deflection temperature				
Vicat softening temperature	80	°C	ISO 306	
Glass transition temperature				

Product export information

HS code	**Description**	**Origin**
39169090	Monofilament for 3D printing	European Union

Disclaimer

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