FGFT® Recycled PETG 15% Carbon Fiber

Item no.: RPETG-15CF-NA01-X-XX

Technical information

Description	Method	Typical value
Specific gravity	ISO 1183	1,34 g/cc
MFI 220 °C/5kg	ISO 1133	8,2 gr/min
Tensile modulus (E)	ISO 527	Mpa
Tensile strength at yield	ISO 527	101 Mpa
Tensile strength at break	ISO 527	98 Mpa
Elongation at break		%
Impact strength – charpy method 23 °C	ISO 179	8,2 kJ/m2
Vicat	ISO 306	°C
Mold shrinkage		

FGFT® Recycled PETG Carbon Fiber is a premium material designed for high-perfomance 3D printing. Combining the versatility of PETG with the exceprional stiffness of carbon fiber, this compound is edal for advanced appplications requiring durability, precision, and a professional finish.

Material features:

- Superior strenght to weight ratio
- Exceptional dimensional stability
- High temperature resistance
- Matte finish
- Abrasion resistance

Printing recommendations	
Pre-drying	Hot air 75°C / 5 hrs - dry air 75°C / 3 hrs
Zone 1 temperature	200-230°C
Zone 2 temperature	210-245°C
Zone 3 temperature	220-250°C
Zone 4 temperature	220-250°C
Mass temperature	220-250°C
Die temperature	220-250°C
Max. moisture content	0,04%
Printing speed	Nozzle 0,4mm/0,2mm layer thickness 150 mm/sec

Applications:

- Aerospace and automotive components
- Structural parts and brackets
- Lightweight functional prototypes
- Tools and fixtures requiring stiffness and heat resistance

Additional information:

- Store cool and dry (15-25 °C)
- Available in cylindricals and UWG
- For FGF applications

All raw materials used in the production of products are in conformity with the REACH regulation (EC) no.1907/2006.
Disclaimer: *All above-mentioned data have been carefully checked according specific testing procedures and/or based on of raw material data and experience with compatible formulations. The data are provided for informational purposes only. Therefore, no guarantee or warranty can be expected from these data. They are part of the quality and delivery specifications. The applicability of the product should be tested under local processing conditions at the converter.*

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