

FGFT® Polypropylene 10% Carbon Fiber

Item no.: PP-10CF-NA01-X-XX

Technical information

Description	Method	Typical value
Specific gravity	ISO 1183	1,18 g/cc
MFI 230 °C/2,16 kg	ISO 1133	3 gr/ 10 min
Tensile modulus (E)	ISO 527	4000 Mpa
Tensile strength at yield	ISO 527	25 Mpa
Tensile strength at break	ISO 527	5 Mpa
Elongation at break		
Impact strength – charpy method 23 °C	ISO 179	6 kJ/m2
Vicat B 50N	ISO 306	°C
Mold shrinkage		

FGFT® Polypropylene with 10% Carbon Fiber is specially formulated for advanced 3D printing applications requiring high strength and dimensional stability. Reinforced with 10% carbon fiber, this PP offers enhanced mechanical performance, stiffness, and long-term durability while maintaining the lightweight properties of polypropylene. Ideal for functional parts, industrial components, and applications where strength-to-weight ratio is important.

Material features:

- High Strength & Stiffness
- Lightweight & Durable
- Excellent Chemical Resistance
- Enhanced Dimensional Stability
- Optimized for 3D Printing

Applications:

- Automotive & transportation components
- Industrial brackets and functional parts
- Lightweight structural components
- Outdoor equipment and enclosures

Additional information:

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

Printing recommendations	
Pre-drying	Hot air 70°C / 6 hrs - dry air 70°C / 3 hr
Zone 1 temperature	170 – 210 °C
Zone 2 temperature	180 – 220 °C
Zone 3 temperature	200 – 230 °C
Zone 4 temperature	200 – 230 °C
Mass temperature	200 – 230 °C
Die temperature	200 – 230 °C
Max. moisture content	0,1 %

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.