



FGFT® PA12 10% Carbon Fiber

Item no.: PA12-10CF-NA01-X-XX

Technical information

Description	Method	Typical value
Specific gravity	ISO 1183	1,06 g/cc
MFI 210 °C/2,16 kg	ISO 1133	3,8 gr/10 min
Tensile modulus (E)	ISO 527	4200Mpa
Tensile strength at yield	ISO 527	72 Mpa
Tensile strength at break	ISO 527	70 Mpa
Elongation at break		8 %
Impact strength – charpy method 23 °C	ISO 179	6,2 kJ/m2
Vicat B 50N	ISO 306	°C
Mold shrinkage		

FGFT®PA12 CF10 is a polyamide 12 compound reinforced with 10% carbon fiber, offering increased stiffness, strength and thermal performance compared to unfilled PA12. It retains the low moisture absorption and excellent chemical resistance typical of PA12, while providing improved dimensional stability and reduced warpage.

Material features:

- High stiffness and strength
- Low warpage and shrinkage
- Excellent chemical resistance
- Low moisture absorption
- Improved thermal performance
- Good dimensional stability

Printing recommendations

Pre-drying	Hot air 70°C/ 6 hrs - dry air 70°C/ 3 hrs
Zone 1 temperature	180-210 °C
Zone 2 temperature	200-220 °C
Zone 3 temperature	215-230 °C
Zone 4 temperature	215-240 °C
Mass temperature	220-240 °C
Die temperature	220-240 °C
Max. moisture content	0,04 %

Applications:

- Structural components
- Automotive parts
- Lightweight functional parts
- Jigs and fixtures
- Industrial tooling

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.