FGFT® High Impact Performance Composite

Item no.: HIPC-25GF-NA01-X-XX

Technical information

Description	Method	Typical value
Specific gravity	ISO 1183	1,08 g/cc
MFI 230 °C/ 2,16 kg	ISO 1133	1,97 gr/ 10 min
Tensile modulus (E)	ISO 527	3254 MPa
Tensile strength at max. force	ISO 527	43,85 MPa
Tensile strength at break	ISO 527	41,28 MPa
Elongation at break	ISO 527	11 %
Impact strength – charpy method 23 °C	ISO 179	32,24 kJ/m2
Vicat B 10N	ISO 306	110,2 °C
Vicat B 50N	ISO 306	67,9 °C

Printing recommendations	
Pre-drying	85 °C
Zone 1 temperature	°C
Zone 2 temperature	°C
Zone 3 temperature	°C
Zone 4 temperature	°C
Mass temperature	°C
Die temperature	°C
Max. moisture content	%

FGFT® High Impact Performance Composite, is an advanced engineered material designed to provide superior impact resistance, structural strength, and durability while maintaining a lightweight structure. The composite construction enables efficient energy absorption and distribution, reducing damage from mechanical loads, impacts, and repeated stress.

Material features:

- Low warpage formulation
- High strength and durability
- Lightweight
- Smooth finish
- Customizable design / colour
- Strong layer adhesion

Applications:

- Industrial equipment protection
- Lightweight structural elements
- 3D printed boats when added UV & Antifouling.

Additional information:

- Store cool and dry (15-25 °C)
- Available in cylindricals
- For FGF applications
- No drying needed if stored properly

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