



Insight™ TAFG 10

Polyethylene Terephthalate (PET) W/Glass Fiber

Insight™ TAFG 10 is a PET Glass Fiber reinforced material developed for Fused Granulate Fabrication(FGF). Insight™ TAFG 10 exhibits excellent strength, stiffness and temperature performance. Processing benefits include low warp (lay flat), layer to layer adhesion and printability.

Insight™ TAFG 10 PET Glass Reinforced

General	SI Metric	English	Test Method
Specific Gravity	1.78 g/cc	-	ASTM D 792
Filler Content	50%	50%	
Melt Point	248 °C	478 °F	ASTM D3418
Physical Properties			
Tensile Modulus	*13900 Mpa	*2.01 x 10 ⁶ psi	ASTM D 638
Tensile Strength	*98 Mpa	*14213 psi	ASTM D 638
Elongation at Break	*<2 %	*<2 %	ASTM D 638
Flexural Modulus	*7800 Mpa	*1.13 x 10 ⁶ psi	ASTM D 790
Flexural Strength	*128 Mpa	*18564 psi	ASTM D 790
Izod Impact (Notched)	0.9 J/m	0.2 ft-lb/in	ASTM D 256
Izod Impact (No-Notch)	300 J/m	24.3 ft-lb/in	ASTM D 256
Thermal Properties			
@ 0.45 Mpa (66 PSI)	245 °C	473 °F	ASTM D 648
@1.8 Mpa (264 PSI)	230 °C	446 °F	ASTM D 648

Notes

These data are typical and not to be construed as a specification.

Unless otherwise stated, all data was generated from typical values of injection molded samples.

PET is very Hygroscopic and requires drying before processing. Recommended drying time is 4 hrs. @ 120 Deg °C (248 °F).

Due to high glass fiber content, it is highly recommended that hardened nozzle be used for any 3D printing processes.

*** Indicates 3D printed parts in Fused Granulate Fabrication and die cut fabricated into ASTM specimens.**

The information in this Data Sheet are provided for reference only and are based on preliminary data. Final Data Sheet properties will be updated as soon as possible. This information is not a substitute for user testing to determine fitness for use and the user is responsible for ensuring safe and lawful use of the product. No express or implied warranties are provided. No representations are made, and no liability is assumed arising from or relating to the product.

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