

Insight™ TCFC02

PETG W/Carbon Fiber

Insight™ TCFC02 is custom compounded PETG with 10% Carbon Fiber for strength and dimensional stability. Insight TCFC02 is suitable for filament production, injection molding and profile extrusion where strength and stiffness are critical;

Insight™ TCFC02 - Carbon Fiber Reinforced PETG

General	SI Metric	English	Test Method
Specific Gravity	1.30	1.30	ASTM D 792
Filler Content	10 %	10 %	
Melt Point	260 °C	500 °F	ASTM D3418
Physical Properties			
Tensile Modulus	4,500 Mpa	650,000 psi	ASTM D 638
Tensile Strength	83 Mpa	12,000 psi	ASTM D 638
Elongation at Break	3.5 %	3.5 %	ASTM D 638
Flexural Modulus	3100 Mpa	450,000 psi	ASTM D 790
Flexural Strength	74 Mpa	1100 psi	ASTM D 790
Izod Impact (Notched)	50 J/m	0.94 ft-lb/in	ASTM D 256
Izod Impact (No-Notch)	NB	NB	ASTM D 256
Thermal Properties			
HDT @ 0.45 Mpa (66 PSI)	71 °C	160 °F	ASTM D 648
HDT @ 1.8 Mpa (264 PSI)	65 °C	150 °F	ASTM D 648

Processing 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.

PETG is Hygroscopic and requires drying before processing. Recommended drying time is 4-6 h at 60° C (150 °F) in a desiccant air dryer.

It is recommended to process at a melt temperature of 440-500 °F.

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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