

Insight™ CBFC02

PC/PBT W/Carbon Fiber

Insight™ CBFC02 is a PC/PBT alloy with Carbon Fiber reinforcement developed for 3D printing via Fused Granulate Fabrication (FGF) and filament production. Insight™ CBFC02 exhibits an excellent balance of strength and stiffness as well as chemical resistance typical of PC/PBT alloys. Benefits include a good balance of strength, stiffness and impact strength as well as process enhancements such as low warp (lay-flat), layer to layer adhesion and printability.

Insight™ CBFC02 - PC/PBT Carbon Fiber Reinforced

General	SI Metric	English	Test Method
Specific Gravity	1.30	1.30	ASTM D 792
Filler Content	10%	10%	
Melt Point	201 °C	394 °F	ASTM D3418
Mechanical			
Tensile Modulus	4500 Mpa	6.5 x 10 ⁵ psi	ASTM D 638
Tensile Strength	70 Mpa	10100 psi	ASTM D 638
Elongation at Break	4%	4%	ASTM D 638
Flexural Modulus	3200 Mpa	4.6 x 10 ⁵ psi	ASTM D 790
Flexural Strength	83 Mpa	12000	ASTM D 790
Izod Impact (Notched)	70 J/m	1.3 ft-lb/in	ASTM D 256
Izod Impact (Unnotched)	1800 J/m	33.6 ft-lb/in	ASTM D 256
Thermal Properties			
HDT @0.45 Mpa (66 PSI)	120 °C	248 °F	ASTM D 648
HDT @1.80 Mpa (264 PSI)	86 °C	187 °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.

PC/PBT Alloys is Hygroscopic and requires drying before processing. Recommended drying time is 4 hrs. @ 110 Deg °C (230 °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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