

Insight™ TCMF03

PETG W/Mineral

Insight™ TCMF03 is a talc filled PETG developed for Fused Granulate Fabrication and Filament Production for use in applications where printability and stiffness are critical. Insight™ TCMF03 can be used as an alternate to glass filled grades of PETG. Benefits include lower nozzle wear and improved printability and improved isotropic shrinkage.

Insight™ TCMF03 - mineral filled PETG

General	SI Metric	English	Test Method
Specific Gravity	0.94	0.94	ASTM D792
Filler Content	15%	15%	
Melt Point	NA	NA	ASTM D3418
Mechanical			
Tensile Modulus	2600 Mpa	3.8 x 10 ⁵ psi	ASTM D638
Tensile Strength	53 Mpa	7700 psi	ASTM D638
Elongation at Break	25%	25%	ASTM D638
Flexural Modulus	2000 Mpa	2.9 x 10 ⁵ psi	ASTM D790
Flexural Strength	64 Mpa	9300 psi	ASTM 790
Izod Impact (Notched)	49 J/m	0.9 ft-lb/in	ASTM D256
Izod Impact (No-Notch)	1575 J/m	29 ft-lb/in	ASTM D256
Thermal Properties			
HDT @ 0.45 Mpa (66 PSI)	66 °C	147 °F	ASTM D648
HDT @1.80 Mpa (264 PSI)	70 °C	158 °F	ASTM D648

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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