

Insight™ TCMF 03

PETG W/Mineral

Insight™ TCMF 03 is a talc filled PETG developed for Fused Granulate Fabrication and Filament Production for use in applications where printability and stiffness are critical. Insight™ TCMF 03 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™ TCMF 03 mineral filled PETG

General	SI Metric	English	Test Method
Specific Gravity	0.94 g/cc	-	ASTM D 792
Filler Content	15%	15%	
Melt Point	NA	NA	ASTM D3418
Mechanical			
Tensile Modulus	2600 Mpa	3.8 x 10 ⁵ psi	ASTM D 638
Tensile Strength	53 Mpa	7700 psi	ASTM D 638
Elongation at Break	25%	25%	ASTM D 638
Flexural Modulus	2000 Mpa	2.9 x 10 ⁵ psi	ASTM D 790
Flexural Strength	64 Mpa	9300 psi	ASTM D 790
Izod Impact (Notched)	49 J/m	0.9 ft-lb/in	ASTM D 256
Izod Impact (No-Notch)	1575 J/m	29 ft-lb/in	ASTM D 256
Thermal Properties			
@ 0.45 Mpa (66 PSI)	66 °C	147 °F	ASTM D 648
@1.8 Mpa (264 PSI)	70 °C	158 °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.

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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