



Insight™ NFFC02

Nylon 6 Copolymer Carbon Fiber

Insight™ NFFC02 is a carbon fiber reinforced Nylon 6 copolymer developed for additive manufacturing (3D Printing) methods that include fused granulate fabrication (FGF) and fused filament fabrication (FFF). Insight™ NFFC02 offers an excellent balance of strength and stiffness, along with the chemical resistance characteristic of nylon. AM processing advantages include low warpage, excellent lay-flat character, strong interlayer adhesion, and excellent printability.

General	SI Metric	English	Test Method
Density	1.18 g/mL	--	ASTM D792
Filler Content	10 %	--	
Melting Point	195 °C	283 °F	ASTM D3418
Mechanical			
Tensile Modulus	3900 Mpa	5.7x10 ⁵ psi	ASTM D638
Tensile Strength	85 Mpa	1.2x10 ⁴ psi	ASTM D638
Elongation at Break	6%	--	ASTM D638
Flexural Modulus	4300 MPa	6.2x10 ⁵ psi	ASTM D790
Flexural Strength	95 Mpa	1.4x10 ⁴ psi	ASTM D790
Izod Impact (notched)	73 J/m	1.4 ft-lb/in	ASTM D256
Izod Impact (unnotched)	1300 J/m	24 ft-lb/in	ASTM D256

Notes

Drying recommended at 80 °C for 4 h
Melt temperature target for processing is 250 °C.

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