



MAKERBOT NYLON CARBON FIBER | Data Sheet

Print Strong, Heat-Resistant Metal Replacement Parts

Carbon fiber reinforced nylon optimized for high strength to weight ratio, stiffness, and heat resistance making it ideal for structural applications and metal replacements.

184° C

HEAT DEFLECTION

110 MPA

TENSILE STRENGTH

7600 MPA

TENSILE MODULUS

STRENGTH TO WEIGHT

A formidable tensile strength of 110 Mpa makes MakerBot Nylon Carbon Fiber ideal for lightweighting metal parts such as robotic end effectors.

STIFFNESS

For applications that require parts hold their form with minimal flex - such as automotive brackets or inspection gauges, Nylon Carbon Fiber offers an impressive 7600 Mpa tensile modulus.

HEAT DEFLECTION

When exposed to heat other materials can deform under pressure. Nylon Carbon Fiber offers high heat deflection of 184°C making it great for higher temp under-hood and tooling applications.



TECH SPECS	Imperial	Metric
Tensile Strength (ISO 527)	16,000 psi	110 MPa
Tensile Modulus (ISO 527)	1,102,000 psi	7600 Mpa
Strain at Yield (ISO 527)	2%	2%
Heat Deflection Temperature (ASTM 648, 66 psi)	363°F	184°C

Specifications based on data provided by the material supplier. Actual printed part specs may vary based on part geometry and print parameters selected.



COMPATIBLE PRINTER

METHOD | METHOD CF | METHOD X



COMPATIBLE EXTRUDER

METHOD Composite Extruder



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