

## 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

110 MPA

7600 MPA

HEAT DEFLECTION

TENSILE STRENGTH

**TENSILE MODULUS** 

#### STRENGTH TO WEIGHT

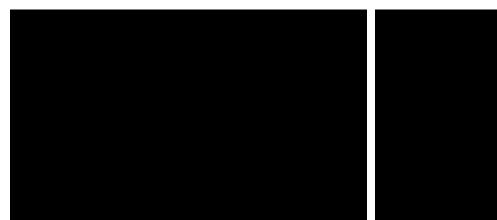
A formidable tensile strength of 110 Mpa makes MakerBot Nylon Carbon Fiber ideal for lightweighting metal parts such as robotic end effectors.

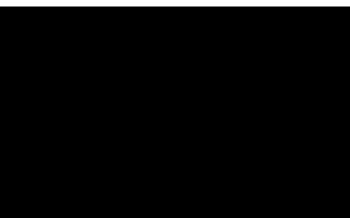
#### **STIFFNESS**

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

# **METHOD**

INDUSTRIAL 3D PRINTING FOR EVERY ENGINEER

 $\label{lem:manufacturing} \textbf{Manufacturing Grade Parts with Advanced Engineering Materials on The Next Generation Desktop 3D Printing Platform}$ 

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