



# Bilby 3D

## **MATERIAL DATA SAFETY SHEET**

Issued in Australia by Bilby 3D Pty Ltd.

The attached Material Data Safety Sheet has been prepared by the manufacturer outside Australia.

In accordance with Australia WHS regulations the following Australian contact details apply

### **Section 1: AUSTRALIAN COMPANY DETAILS**

In Australia the product is imported and distributed by:  
Bilby 3D Pty Ltd

Mailing Address :

Kingsgrove Business Centre, 7/192 Kingsgrove Rd, Kingsgrove NSW 2208

Head Office Address :

Kingsgrove Business Centre, 7/192 Kingsgrove Rd, Kingsgrove NSW 2208

Contact Phone: 1800 847 333

### **Section 2: AUSTRALIAN EMERGENCY CONTACT**

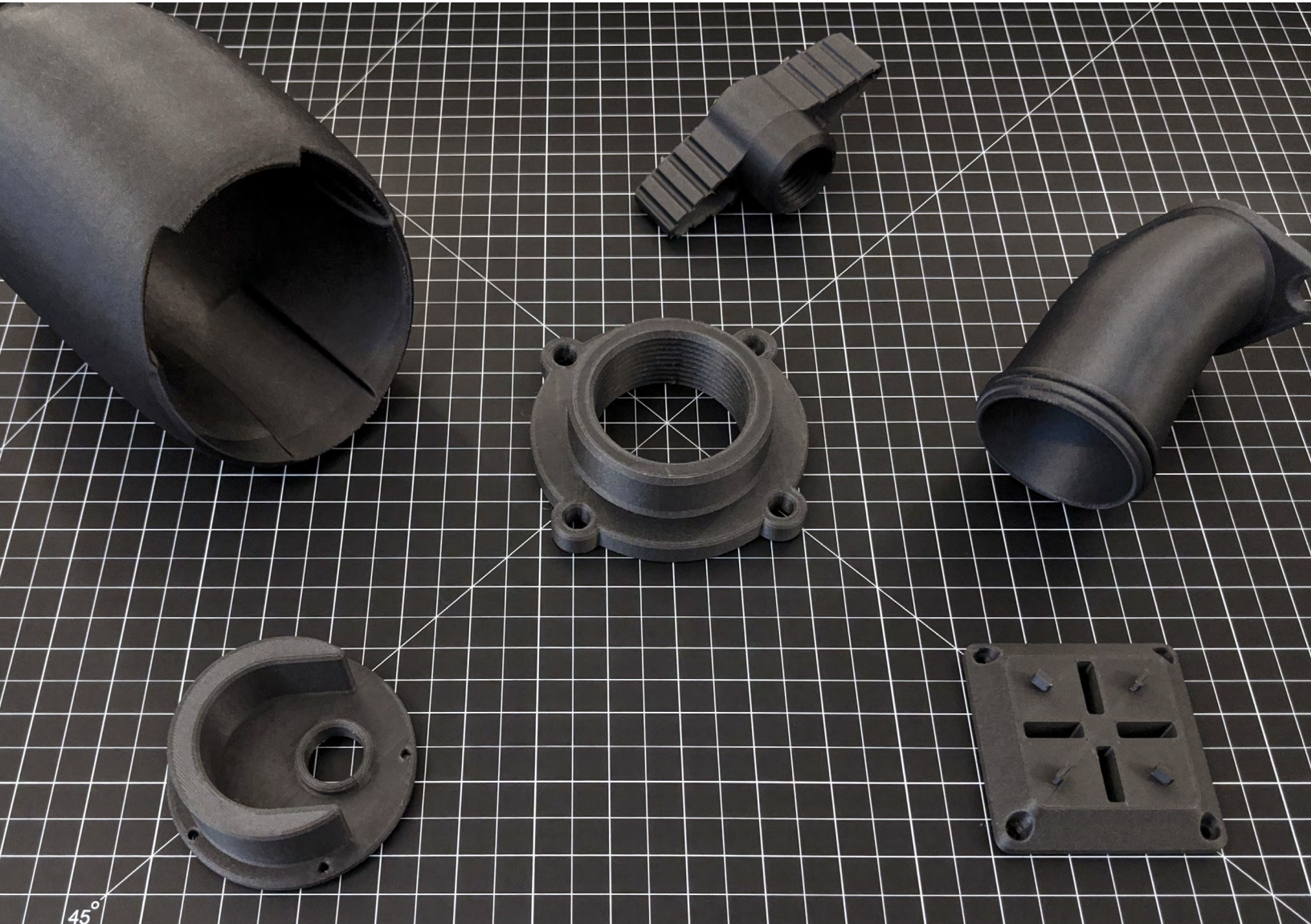
#### **Emergency Contact**

In the event of an emergency please contact:

Poisons Information Centre 24 hour Telephone Advice Line on 13 11 26

### **Section 3: AUSTRALIAN ISSUE DATA**

**Date of Issue** : 1 March 2020



# 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.

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**184° C**

HEAT DEFLECTION

**110 MPA**

TENSILE STRENGTH

**7600 MPA**

TENSILE MODULUS

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### 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

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