# 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
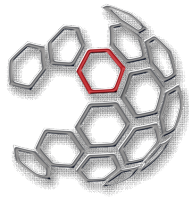
## Section 2: AUSTRALIAN EMERGENCY CONTACT

**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

Technical Data Sheet: CarbonX™ Carbon Fiber ezPC Polycarbonate 3D Printing Filament

| Physical Properties | Standard | Unit | Typical Value |
|---|---|---|---|
| Density | ISO 1183 | g/cc | 1.36 |

| Mechanical Properties | Standard | Unit | Typical Value |
|---|---|---|---|
| Tensile Strength, Break | ISO 527 | MPa | 73 |
| Tensile Modulus | ISO 527 | MPa | 6980 |
| Tensile Elongation, Break | ISO 527 | % | 2.1 |
| Flexural Strength | ISO 178 | MPa | 85 |
| Flexural Modulus | ISO 178 | MPa | 6540 |

| Thermal Properties | Standard | Unit | Typical Value |
|---|---|---|---|
| Glass Transition Temperature (Tg) | DSC | °C | 127 |
| Deflection Temperature at 0.45 MPa (66psi) | ISO 75 | °C | 119 |

| Electrical Property | Standard | Unit | Typical Value |
|---|---|---|---|
| Surface Resistance | ASTM D257 | Ohm/sq | $>10^9$ |

| Printed Specimen Conditions |
|---|
| Printer: Open Source FDM/FFF |
| Nozzle: 0.4mm |
| Layer Height: 0.25mm |
| Infill: 100%, +/- 45° |
| Extrusion Temp: 275°C |
| Bed Temp: 95°C |
| Specimen Orientation: XY Flat |

www.3dxtech.com