



# 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

# Ultracur3D<sup>®</sup> ST 1400

Multi-purpose resin with superior toughness and durability

General Properties	Norm	Typical Values
Appearance	-	Clear
Viscosity, 30 °C	Cone/Plate Rheometer <sup>1</sup>	280 mPas
Viscosity, 50 °C	Cone/Plate Rheometer <sup>1</sup>	90 mPas
Density (printed part)	ASTM D792	1.2 g/cm <sup>3</sup>
Density (liquid resin)	ASTM D4052-18a	1.12 g/cm <sup>3</sup>

Tensile Properties	Norm (5 mm/min)	Typical Values
E Modulus	ASTM D638	1900 MPa
Ultimate Tensile Strength	ASTM D638	45 MPa
Elongation at Break	ASTM D638	43 %

Flexural Properties	Norm	Typical Values
Flexural Modulus	ASTM D790	1540 MPa
Flexural Strength	ASTM D790	80 MPa

Impact Properties	Norm	Typical Values
Notched Izod (Machined), 23 °C	ASTM D256	43 J/m
Unnotched Izod, 23 °C	ASTM D256	930 J/m
Charpy notched, 23 °C	ISO 179-1	4.6 kJ/m <sup>2</sup>

Thermal Properties	Norm	Typical Values
HDT at 0.45 MPa	ASTM D648	57 °C
HDT at 1.82 MPa	ASTM D648	48.7 °C

Hardness	Norm	Typical Values
Shore D	ASTM D2240	78

Other	Norm	Typical Values
Biocompatibility	ISO 10993	Information available on request
Water Absorption, Short Term (24 hours)	ASTM D570	0.33 %

<sup>1</sup>) Determined with TA-Instrument DHR rheometer, cone/plate, diameter 60 mm, shear rate 100 s<sup>-1</sup>

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