



# 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® EL 4000

Flexible resin with superior strength, rebound and high hardness (Shore 90A)

General Properties	Norm	Typical Values
Appearance	-	Clear
Viscosity, 30 °C	Cone/Plate Rheometer <sup>1</sup>	350 mPas
Viscosity, 50 °C	Cone/Plate Rheometer <sup>1</sup>	120 mPas
Density (printed part)	ASTM D792	1.13 g/cm <sup>3</sup>
Density (liquid resin)	ASTM D4052-18a	1.06 g/cm <sup>3</sup>

Tensile Properties	Norm (500 mm/min)	Typical Values
E Modulus	ASTM D412 C	42 MPa
Ultimate Tensile Strength	ASTM D412 C	11 MPa
Elongation at Break	ASTM D412 C	172 %

Impact Properties	Norm	Typical Values
Unnotched Izod, 23 °C	ASTM D256	No break

Mechanical Properties	Norm	Typical Values
Tear Strength (Graves)	ASTM D624 type C	37 N/mm
Tear Strength (Trouser)	ASTM D624 type T	3 kN/m
Rebound Resilience	ASTM D7121	30 %
Relative Abrasion Loss	ISO 4649	575 mm <sup>3</sup>
Compression set at 23°C, 72h	ASTM D395-A	8 %
Compression set at 23°C, 72h	ASTM D395-B	60 %

Hardness	Norm	Typical Values
Shore A	ASTM D2240	90

Other	Norm	Typical Values
Water Absorption, Short Term (24 hours)	ASTM D570	2.3 %

<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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