



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[®] ST 80

Reactive Urethane Photopolymer

General Properties	Norm	Typical Values
Viscosity, 30 °C	Cone/Plate Rheometer ¹	418 mPas
Viscosity, 50 °C	Cone/Plate Rheometer ¹	121 mPas
Density	ASTM D792	1.12 g/cm ³
Density (liquid resin)	ASTM D4052-18a	1.085 g/cm ³

Tensile Properties	Norm	Typical Values
E Modulus	ASTM D638	1530 MPa
Ultimate Tensile Strength	ASTM D638	34.30 MPa
Elongation at Break	ASTM D638	21.0 %

Flexural Properties	Norm	Typical Values
Flexural Modulus	ASTM D790	1670 MPa
Flexural Strength	ASTM D790	60.70 MPa

Impact Properties	Norm	Typical Values
Notched Izod (Machined), -30 °C	ASTM D256	14.82 J/m
Notched Izod (Machined), 23 °C	ASTM D256	17.13 J/m
Charpy notched, 23 °C	ISO 179-1	1.47 kJ/m ²

Thermal Properties	Norm	Typical Values
HDT at 0.45 MPa	ASTM D648	46.5 °C
HDT at 1.82 MPa	ASTM D648	42.8 °C

Hardness	Norm	Typical Values
Shore D	ASTM D2240	82

Other	Norm	Typical Values
Biocompatibility	ISO 10993	Information available on request

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

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