

#### **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® RG 3280

Rigid | HDT 280 | Ceramic-filled

General Properties	Norm	Typical values
Appearance	-	White
Viscosity, 30 °C	Cone/Plate Rheometer <sup>1</sup>	230 mPas
Viscosity, 50 °C	Cone/Plate Rheometer <sup>1</sup>	93 mPas
Density (printed part)	ASTM D792	1.73 g/cm <sup>3</sup>
Density (liquid resin)	ASTM D4052-18a	1.65 g/cm³

Tensile Properties	Norm (5 mm/min)	Typical values (UV post-cured)	Typical values (UV + thermal*)
E Modulus	ASTM D638	10000 MPa	10300 MPa
Ultimate Tensile Strength	ASTM D638	76 MPa	70 MPa
Elongation at Break	ASTM D638	1 %	0.7 %

Flexural Properties	Norm	Typical values (UV post-cured)
Flexural Modulus	ASTM D790	8780 MPa
Flexural Strength	ASTM D790	73 MPa

Impact Properties	Norm	Typical values (UV post-cured)
Notched Izod (Machined), 23 °C	ASTM D256	2.36 J/m
Unnotched Izod, 23 °C	ASTM D256	4.67 J/m
Charpy notched, 23 °C	ISO 179-1	0.98 kJ/m²

Thermal Properties	Norm	Typical values (UV post-cured)	Typical values (UV + thermal*)
HDT at 0.45 MPa	ASTM D648	>280 °C	>280 °C
HDT at 1.82 MPa	ASTM D648	132 °C	162 °C

Hardness	Norm	Typical values (UV post-cured)
Shore D	ASTM D2240	96

Other	Norm	
Water Absorption,	ASTM D570	0.29 %
Short Term (24 hours)		

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

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. The safety data given in this publication is for information purposes only and does not constitute a legally binding MSDS. The relevant MSDS can be obtained upon request from your supplier or you may contact BASF 3D Printing Solutions GmbH directly at <a href="mailto:sales@basf-3dps.com">sales@basf-3dps.com</a>. Version 1.0



<sup>\*</sup> regular UV post-curing and additional thermal post-cure of 3h at 150°C, see User Guideline for more details.