



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



SPECS

KEY FEATURES

Photocentric's range of Crystal Clear UV photopolymers are ideal for making clear strong objects with only minimal shrinkage. Crystal Clear UV has been specifically developed to allow the fabrication of extremely clear objects with a smooth, shiny surface finish.

Parts printed with Crystal Clear display a high accuracy and minimal shrinkage, allowing for the production of highly accurate clear models.

Crystal Clear is ideal for experiencing fast exposure times and wide exposure latitude, allowing you to hold the finest details your machine can provide.

The solid material is strong, durable and long lasting, provided it is stored in dry conditions away from strong UV light.

In order to increase the clearness and shine, the printed parts can be polished and a clear lacquer spray applied.

PRINTING (PROCESSING) INSTRUCTIONS

Follow the procedures laid out in your 3D Liquid Crystal user manual. Resin should be poured into the tray away from direct sunlight. Resin can also be reused but should be poured through a filter to remove solid lumps. Keep hood on at all times to avoid unwanted curing or contamination. Liquid polymer is soluble in water and soap, however we recommend sonicating the 3d printed parts for 5 minutes in Photocentric Resin Cleaner for cleaning 3d printed parts. After cleaning, objects should be post exposed for 1 hour at 60°C under UV light.



Clear bottle

DATA

Viscosity (At 25°C Brookfield spindle 3)	980 cPs
Hardness ASTM D2240 (After post exposure)	90 Shore D
Tensile strength ASTM D638 (After post exposure, 60 minutes at 60°C)	65 MPa
Tensile Modulus ASTM D638 (After post exposure, 60 minutes at 60°C)	2800 MPa
Elongation at break ASTM D638 (After post exposure, 60 minutes at 60°C)	6%
Impact strength (Notched Izod-ISO 180)	4.4 kJ/m ²
Flexural strength ASTM D792 (After post exposure, 60 minutes at 60°C)	17 MPa
Flexural modulus ASTM D792 (After post exposure, 60 minutes at 60°C)	300 MPa
Water absorption (48 h)	0.00 wt%
Storage	10<t>50°C
Density	1.09 g/cm ³

AVAILABLE COLOURS

Clear