



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



Daylight Magna Dental Model



SPECS

KEY FEATURES

Photocentric's Dental Model White formulation was purposefully created to produce detailed, high resolution dental models on the LC Magna. Developed in collaboration with Dental Technologists to ensure optimal colour, feel, and working characteristics; this resin is ideal for Orthodontic study and working models. A full printed arch shows minimal shrinkage with deviation tolerances of 50µm. Dental model white will provide excellent print performance on LC Magna, to create crisp and clean dental models suitable for producing aligners. Parts display extremely high tensile properties allowing their use in working or vacuum forming models.

PRINTING (PROCESSING) INSTRUCTIONS

Follow the procedures laid out in the LC Magna user manual. Shake resin prior to use, recommended 2 minutes. Avoid direct sunlight while pouring. The resin is reusable after pouring through the supplied filter and funnel to remove any solids. Always keep door closed when not in use to avoid curing or contamination.

Post Processing guidelines:

- Do not leave the platform in the ambient light before washing and post exposing, this could lead to liquid resin curing prematurely.
- Wash in the wash 99L for approximately 15 minutes (as a maximum)
- Rinse with hot water to remove residue cleaner and resin
- Dry with air compressor to remove any remaining water from the part
- To post cure your platform place a water bath (container) in the base of your Cure L.
- Post cure in a pre-heated Cure L for 15 minutes on the print arm at 60 degrees, after this time place the platform (teeth facing up) into the water bath to post-cure for the remaining 30 minutes. If parts remaining tacky

Support guidelines:

- Support profile for small parts – 0.6mm tips / 1.5mm pole diameter / 2mm widening factor
- Support profile for large parts – 0.8mm tips / 2mm pole diameter / 2mm widening factor

Recommended resin temperature (pre-printing)

- 30°C

DATA

Viscosity <small>(At 25°C Brookfield spindle 3)</small>	900 cPs
Hardness <small>ASTM D2240 (After post exposure)</small>	90 Shore D
Tensile strength <small>ASTM D638 (After post exposure Postcured 120 mins UV and heat 60°C water)</small>	63 MPa
Young's modulus <small>ASTM D638 (After post exposure Postcured 120 mins UV and heat 60°C water)</small>	3020 MPa
Elongation at break <small>ASTM D638 (Postcured 120 mins UV and heat 60°C water)</small>	4.3%
Impact strength notched Izod <small>ASTM D256 (After post exposure)</small>	3.2 kJ/m2
Flexural strength <small>ASTM D792 (After post exposure)</small>	95 MPa
Flexural modulus <small>ASTM D792 (After post exposure)</small>	2200 MPa
Heat deflection temperature	95°C
Water absorption (24 h)	< 0.2 wt%
Storage	10<t>50°C
Density	1.09 g/cm3

AVAILABLE COLOURS

White

Available in 5 kg bottles.