



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:

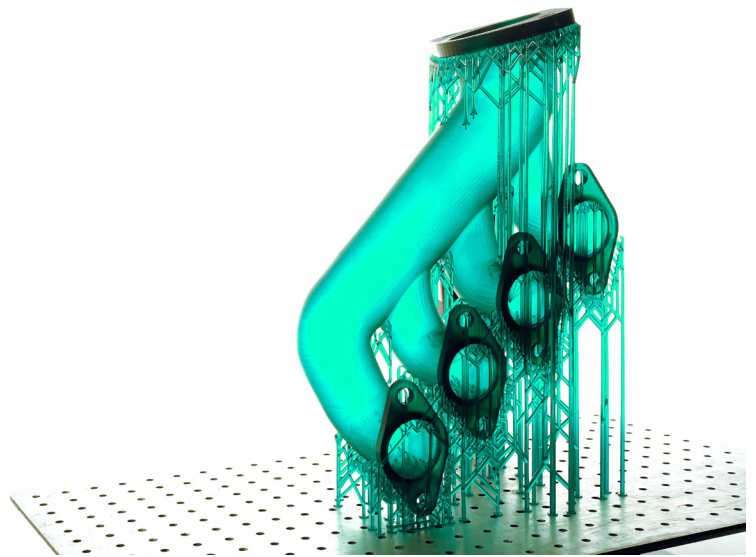
Poisons Information Centre 24 hour Telephone Advice Line on 13 11 26

Section 3: AUSTRALIAN ISSUE DATA

Date of Issue : 1 March 2020



Daylight Magna Draft



Fluid Manifold

SPECS

KEY FEATURES

Photocentric's Draft resin is our fastest printing resin yet. Specifically designed to allow for detailed, large parts to be printed in shorter times for rapid prototyping or even production. This resin works up to a 350 µm layer height with low curing times, reducing print times dramatically. The end parts manufactured exhibit very high strength comparable to Nylon 6. The parts can't be bent or compressed easily and exhibit minimal shrinkage and high accuracy.

With excellent imaging in the LC Magna, this resin has fast exposure times and a wide exposure latitude. Allowing the parts to also hold the finest details possible from LC Magna. The finished material is tough, durable and long lasting provided it is stored in dry conditions away from strong UV light.

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 Wash99 or Air Wash L 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
- Post cure in a pre-heated Cure L for 2 hours at 60 degrees, for larger parts it can take up to 4 hours to post cure

Recommended resin temperature (pre-printing)

- 30°C

DATA

(Test pieces post cure: Cure L 405, 60 minutes 60°C)

Viscosity 970 cPs

(At 25°C Brookfield spindle 3)

Hardness 90 Shore D

ASTM D2240 (After post exposure for 60 minutes at 60°C)

Tensile strength 84 MPa

ASTM D638 (After post exposure for 60 minutes at 60°C)

Elongation at break 4.4%

ASTM D638 (After post exposure)

Tensile Modulus 3200 MPa

ASTM D638 (After post exposure for 60 minutes at 60°C)

Impact strength 4.1kJ/m2

(Notched Izod-ISO 180)

Flexural strength 109 MPa

ASTM D792 (After post exposure)

Flexural modulus 2840 MPa

ASTM D792 (After post exposure)

Water absorption <0.2 wt%

(24 h at 60°C)

Storage 10<math>\lt;math>\gt;50^{\circ}\text{C}

Density 1.16 g/cm3

AVAILABLE COLOURS

Turquoise.

Available in 5kg bottles.