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

Photocentric

UV DLP Poliglass

SPECS

FEATURES

Photocentric's new photopolymer resin is optically clear and looks like glass. Poliglass has been specifically developed to allow the fabrication of extremely clear glass-like objects with a smooth, shiny surface finish.

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

Poliglass 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.

PROCESSING INSTRUCTIONS

Follow the procedures laid out in your DLP printer user manual. Polymer should be poured into the tray away from direct sunlight. Polymer can be reused but should be poured through a filter to remove solid lumps. Keep hood on at all times. Liquid polymer is soluble in water and soap however we recommend Photocentric's Resin Cleaner, or IPA, followed by water. The cleaned objects should be post exposed at 60°C under UV for a minimum of 1 hour to obtain clear objects. In general, we recommend to expose larger objects for longer times. To achieve optimal clearness, we recommend to post expose for 1 h under UV per cm of depth.

IDEAL APPLICATIONS

Consumer Goods, Clear models, Figurines, Glass imitations

DATA

Viscosity (At 25ºC Brookfield spindle 3)	150 cPs
Hardness (After post exposure)	85 Shore D
Tensile strength ASTM D638 (Postcured 60 mins under UV and 60°C)	40 MPa
Youngs modulus ASTM D638 (After post exposure, 1h UV)	2100 MPa
Elongation at break ASTM D638	4.0%
Heat deflection temp ASTM D638	60°C
Storage	10<t>50°C
Density	1.09 g/cm3

AVAILABLE COLOURS

Clear

Available in 1kg bottles with non-drip cap.

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