



# 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:

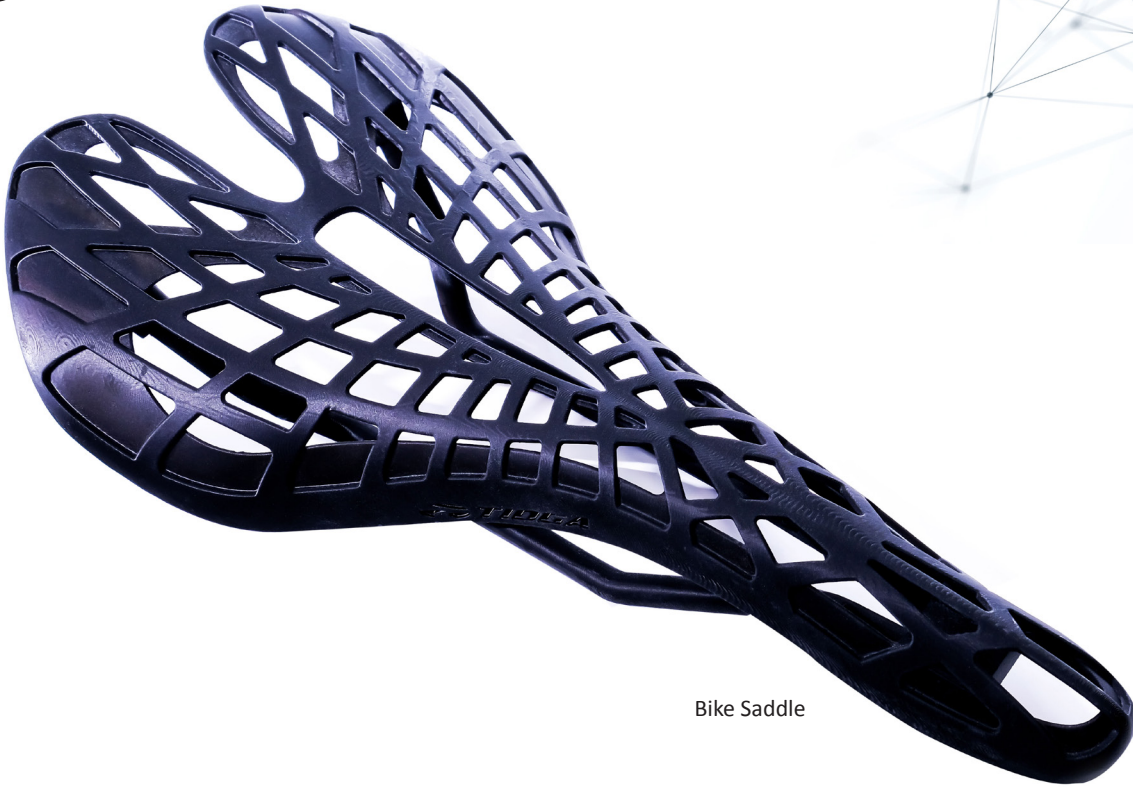
Poisons Information Centre 24 hour Telephone Advice Line on 13 11 26

### **Section 3: AUSTRALIAN ISSUE DATA**

**Date of Issue** : 1 March 2020

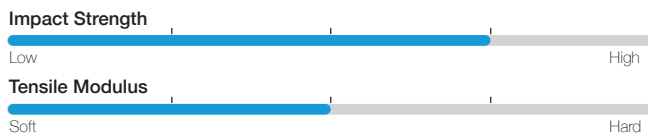


Durable UV80



Bike Saddle

## Properties



## Compatible

UV 3D Printers



Liquid Crystal  
**DENTAL**

## Colours

● Black

Available in 1kg & 5kg bottles

## Introduction

Photocentric Durable range is the most versatile material of the Photocentric functional materials, resisting impact, compression, bending, and stress fatigue without breaking or deforming.

Photocentric Durable UV80 works with a variety of UV LCD and DLP 3D printers, as well as the Photocentric Liquid Crystal Dental printer.

## Best Used for:

- Jigs and fixtures requiring minimal deflection
- Cover-plates and enclosures
- Fastenings, tools and couplings
- Suitable for end-use parts

## USPs

- Tough, durable, and long lasting
- Simulating the strength and stiffness of ABS
- High definition
- Smooth surface finish

## Processing Instructions

- To print on Photocentric LC Dental, choose the Durable UV80 Profile in Photocentric Studio.
- To print with other LCD and DLP 3D printers, please see [Photocentric Support > UV Resins](#) for suggestions on print profiles.
- Recommended working temperature should be at least 25°C.
- Shake resin for approximately 2 minutes prior to use.

## Post Processing

- Keep parts on the platform. Place the platform with parts into post exposure units like Cure M+ (405 nm) to for 2 hours at 60°C.
- Wash in the Photocentric Resin Cleaner until the parts are clean and for no longer than 15 minutes.
- Rinse with warm water for 2 minutes.
- Dry with air compressor to remove any remaining water.

## Properties

### Tensile Properties

Tensile Modulus *	1940 MPa	ASTM D638
Ultimate Tensile Strength *	46 MPa	ASTM D638
Elongation at break *	13%	ASTM D638

### Flexural Properties

Flexural Strength *	28 MPa	ASTM D790
Flexural Modulus *	760 MPa	ASTM D790

### Impact Properties

Impact Strength Notched Izod *	8.1 kJ/m2	ISO 180
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### General Properties

Hardness *	84 Shore D	ASTM D2240
Heat Deflection Temperature	65 °C	
Viscosity	400 cPs	At 25°C Brookfield spindle 3
Density	1.10 g/cm3	
Storage	10<T>50°C	

\* Post cured for 2hrs at 60°C in CureM+