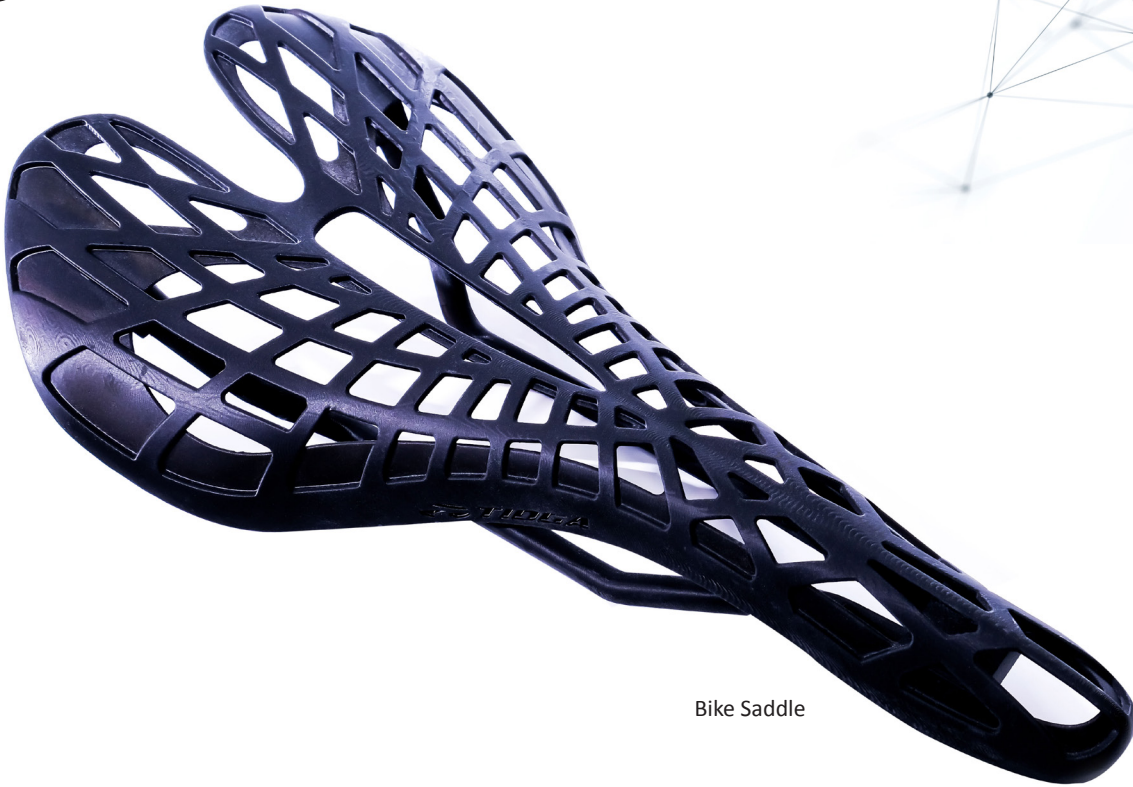


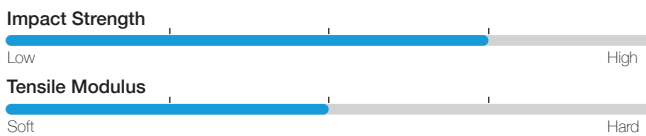


Durable UV80



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
--------------------------------	-----------	---------

### 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+