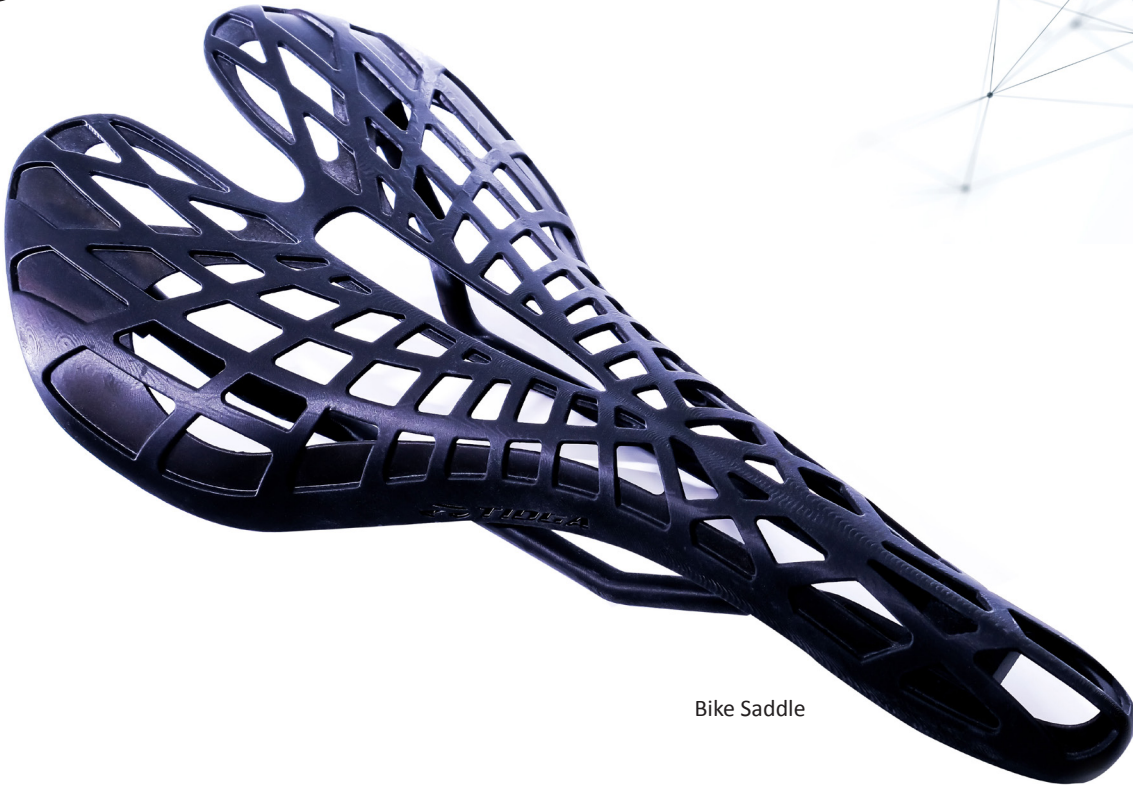




Durable UV80



Bike Saddle

Properties

Impact Strength



Low

High

Tensile Modulus



Soft

Hard

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+