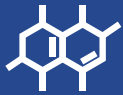




Technical Datasheet

LCD

Dental Model



UV Resin

Photocentric



UV LCD Dental Model

Accuracy (Low – High)



Shore Hardness (Soft – Hard)



Compatible Printers

UV LCD & DLP 3D Printers



Liquid Crystal
OPUS

Colour

 Beige

 White

 Grey

Available in
1kg bottles



Dental Model photopolymer resins have been formulated to create detailed, high resolution dental models on the LC Dental 3d printer. The resins have been developed in conjunction with Dental Technologists to ensure an optimal colour, feel, and working characteristics. Ideal for orthodontic, study and working models. The prints show minimal shrinkage with a tolerance of 50µm max deviation on a full arch. Printed dental parts exhibit extremely high tensile properties and hardness, allowing for their use as a working or a vacuum forming model.

Optimised for:

Clear aligner manufacture

Thermoforming

Study opposing and denture base models



UV LCD Dental Model Properties

Tensile Properties

Young's Modulus *	2800 MPa	ASTM D638
Ultimate Tensile Strength *	70 MPa	ASTM D638
Elongation at break *	4%	ASTM D638

Flexural Properties

Flexural Modulus *	1700 MPa	ASTM D790
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Impact Properties

Impact Strength Notched Izod *	3.9 kJ/m ²	ISO 180
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General Properties

Hardness *	90 Shore D	ASTM D2240
Water absorption after 24 hrs	< 0.3%	wt%
Viscosity	250 cPs	At 25°C Brookfield spindle 3
Density	1.10 g/cm ³	
Storage	10<T>50°C	

* Mechanical properties stated based on fully cured material.



We are constantly reviewing and improving our range of high-performance materials. For the very latest information, please visit the Photocentric website



Processing Instructions

Follow the procedures laid out in your 3D Liquid Crystal 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. We recommend the use of Photocentric Resin Cleaner for cleaning 3d printed objects. Objects should be post cured under UV in 60°C warm water to obtain the appropriate tensile properties and give a great surface finish.

