



Technical Datasheet

LCD Firm



UV Resin

Photocentric



UV LCD Firm

Tensile Modulus (Low – High)



Shore Hardness (Soft – Hard)



Compatible Printers

UV LCD 3D Printers

Colour



Black

Available in
1kg bottles



Photocentric's UV LCD range puts creation in your hands. Obtain prints in short times on UV-LCD backlit prints like the Wanhao D7 and Anycubic Photon where these resins have been optimised to give the shortest layer times.

Photocentric's range of UV LCD Firm photopolymers are ideal for creating objects that are hard but, not brittle, with some flexibility. Thin objects will deflect and compress enough to bend and return to their original shape.

They exhibit moderate to high tensile shear properties and limited elongation. UV LCD Firm provides excellent imaging in your back lit UV LCD printer where you also benefit from fast exposure times and hold the finest detail your machine can provide. The solid material is tough, durable and long lasting provided it is stored in dry conditions away from strong UV light.

Optimised for:

Pliable parts

High accuracy

Durable functional parts



UV LCD Firm Properties

Tensile Properties

Tensile Modulus *	700 MPa	ASTM D638
Ultimate Tensile Strength *	10 MPa	ASTM D638
Elongation at break *	10%	ASTM D638

General Properties

Hardness *	65 Shore D	ASTM D2240
Viscosity	560 cPs	At 25°C Brookfield spindle 3
Density	1.18 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 UV-LCD printer user manual. For cure times, please refer to our UV Support Page. Resin 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. Liquid polymer is soluble in water and soap. After cleaning objects, surface tack can be removed by leaving under water in UV light for 20 minutes. Total post cure should be at least 1 hour in UV light.

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