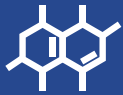




Technical Datasheet

DLP Firm



UV Resin

Photocentric



UV DLP Firm

Tensile Modulus (Low – High)



Shore Hardness (Soft – Hard)



Compatible Printers

UV LCD & DLP 3D Printers

Colour



Grey

Available in 1kg bottles



Photocentric's range of firm DLP UV photopolymers are ideal for making objects where you want a little flexibility, but still a hard object. Thin objects will compress and deflect enough to bend and return.

They exhibit moderate to high tensile shear properties and limited elongation, objects can be bent slightly with extreme force. DLP UV Firm provides excellent imaging in your desktop laser printer. You will experience the benefits of fast exposure times and a wide exposure latitude, allowing you to hold the finest details 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 DLP Firm Properties

Tensile Properties

Tensile Modulus *	700 MPa	ASTM D638
Ultimate Tensile Strength *	26 MPa	ASTM D638
Elongation at break *	10%	ASTM D638

General Properties

Hardness *	65 Shore D	ASTM D2240
Heat Deflection Temp	52°C	
Viscosity	560 cPs	At 25°C Brookfield spindle 3
Density	1.18 g/cm3	
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 DLP printer 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. After making cleaned objects surface tack can be removed by leaving under water in UV for 20 minutes or longer. If any surface tack persists you can remove it by wiping the parts with IPA.