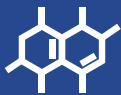




Technical Datasheet

Hard UV



UV Resin

Photocentric



Hard UV

Tensile Modulus (Low – High)



Impact Strength (Soft – Hard)



Compatible Printers

UV LCD & 3D Printers



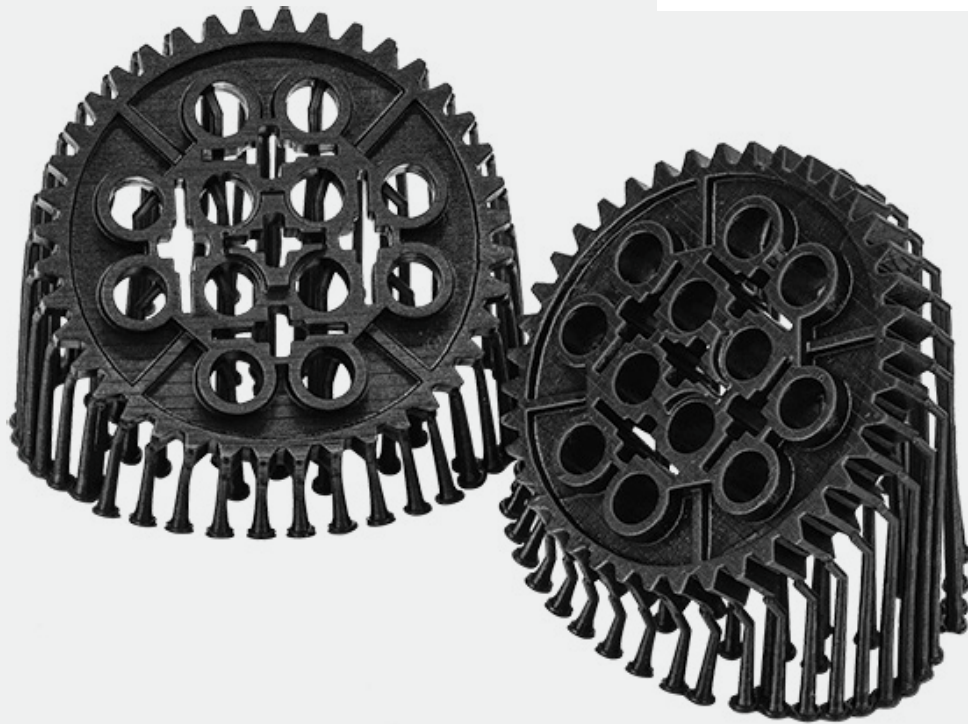
Liquid Crystal
OPUS

Colour

Black

Grey

Available in
1kg bottles



Photocentric's range of Hard UV photopolymers are ideal for making objects where you want a very hard object. Objects cannot be bent or compressed.

They exhibit very high tensile shear properties and very low elongation. Objects cannot be bent and compressed. Hard UV provides excellent imaging in your desktop 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:

☒ Functional Parts

☒ Prototypes

☒ Compression-resisting end-use parts



Hard UV Properties

Tensile Properties

Tensile Modulus	2060 MPa	ASTM D638
Initial Tensile Strength *	15 MPa	ASTM D638
Ultimate Tensile Strength *	35 MPa	ASTM D638
Elongation at break *	4%	ASTM D638

General Properties

Hardness *	77 Shore D	ASTM D2240
Heat Deflection Temperature	60°C	ASTM D648
Density	1.19 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 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.