Technical Datasheet

Poliglass

UV Resin

UV Poliglass

Tensile Modulus (Low – High)

Shore Hardness (Soft – Hard)

Compatible Printers

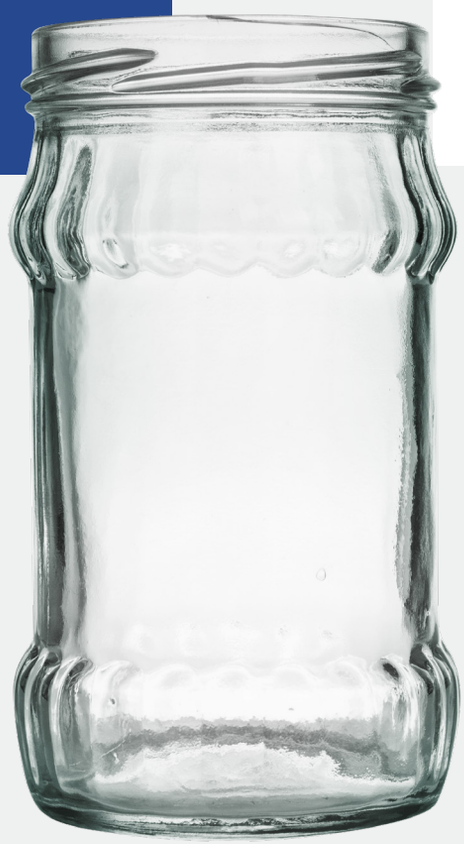
UV LCD & DLP 3D Printers

Colour

Clear

Available in

1kg bottles



Photocentric's new photopolymer resin is optically clear and looks like glass. Poliglass has been specifically developed to allow the fabrication of extremely clear glass-like objects with a smooth, shiny surface finish.

Parts printed with Poliglass display high accuracy and minimal shrinkage, allowing for the production of highly accurate clear models.

Poliglass is ideal for experiencing fast exposure times and wide exposure latitude, allowing you to hold the finest details your machine can provide. The solid material is strong, durable and long lasting, provided it is stored in dry conditions away from strong UV light.

In order to increase the clearness and shine, the printed parts can be polished and a clear lacquer spray applied.

Optimised for:

- Consumer goods
- Glass imitations
- Clear models
- Figurines

Revision 1
12/01/2023

UV Poliglass Properties

Tensile Properties		
Young´s Modulus *	2100 MPa	ASTM D638
Ultimate Tensile Strength *	40 MPa	ASTM D638
Elongation at break *	4%	ASTM D638
General Properties		
Hardness *	85 Shore D	ASTM D2240
Heat Deflection Temperature	60°C	
Viscosity	150 cPs	At 25°C Brookfield spindle 3
Density	1.09 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 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 however we recommend Photocentric's Resin Cleaner, or IPA, followed by water. The cleaned objects should be post exposed at 60°C under UV for a minimum of 1 hour to obtain clear objects. In general, we recommend to expose larger objects for longer times. To achieve optimal clearness, we recommend to post expose for 1 h under UV per cm of depth.

Photocentric

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