Technical Data

Photocentric

UV Crystal Clear

Clear bottle

SPECS

KEY FEATURES

Photocentric's range of Crystal Clear UV photopolymers are ideal for making clear strong objects with only minimal shrinkage. Crystal Clear UV has been specifically developed to allow the fabrication of extremely clear objects with a smooth, shiny surface finish.
Parts printed with Crystal Clear display a high accuracy and minimal shrinkage, allowing for the production of highly accurate clear models.
Crystal Clear 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.

PRINTING (PROCESSING) INSTRUCTIONS

Follow the procedures laid out in your 3D Liquid Crystal user manual. Resin should be poured into the tray away from direct sunlight. Resin can also be reused but should be poured through a filter to remove solid lumps. Keep hood on at all times to avoid unwanted curing or contamination. Liquid polymer is soluble in water and soap, however we recommend sonicating the 3d printed parts for 5 minutes in Photocentric Resin Cleaner for cleaning 3d printed parts. After cleaning, objects should be post exposed for 1 hour at 60°C under UV light.

DATA

Viscosity (At 25ºC Brookfield spindle 3)	980 cPs
Hardness ASTM D2240 (After post exposure)	90 Shore D
Tensile strength ASTM D638 (After post exposure, 60 minutes at 60°C)	65 MPa
Tensile Modulus ASTM D638 (After post exposure, 60 minutes at 60°C)	2800 MPa
Elongation at break ASTM D638 (After post exposure, 60 minutes at 60°C)	6%
Impact strength (Notched Izod-ISO 180)	4.4 kJ/m2
Flexural strength ASTM D792 (After post exposure, 60 minutes at 60°C)	17 MPa
Flexural modulus ASTM D792 (After post exposure, 60 minutes at 60°C)	300 MPa
Water absorption (48 h)	0.00 wt%
Storage	10<t>50°C
Density	1.09 g/cm3

AVAILABLE COLOURS

Clear

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