



Liqcreate Tray

A dental CE Class 1 registered 3D-printing resin for Digital Light Processing (DLP), Liquid Crystal Display (LCD) and laser based 3D-printers to manufacture custom impression trays.

Product description

Liqcreate Tray is a CE Class 1 certified and registered opaque turquoise photopolymer resin for 3D printing custom dental impression trays. It is compatible with most open DLP, MSLA and laser-based 3D printers operating at 385-405 nm. Printed parts show high print speed, good strength and sufficient rigidity for stable impression trays. Liqcreate Tray is registered in the EU as a Class 1 medical device.

Liqcreate Tray is a fast-printing biocompatible material used to directly produce custom impression trays for implants, dentures, crowns, bridges and other comprehensive cases. Digitally manufactured impression trays deliver consistent and accurate impressions for high-quality dentistry. Supporting 3D-printing at 200-micron layer height, full trays can be printed quickly, reducing labor time and increasing throughput.

Key benefits

- Biocompatible
- CE Class 1
- Registered medical device
- Fast printing
- Steam sterilization possible

3D-Printer compatibility

- Asiga UV series
- Elegoo & Anycubic series
- Phrozen series
- [Open 385 - 420nm DLP, LCD and SLA 3D-printers](#)

Order information

Order directly at the [Liqcreate store](#) or send your inquiry to order@liqcreate.com with the following order numbers.

Liqcreate Tray

1 kg

Order number LTR01000





Liqcreate Tray Technical Data

Liquid properties			
Appearance	Opaque blue liquid	Ec (405nm)	4.00 mJ/cm ²
Viscosity	800 mPa·s at 25° C	Dp (405nm)	0.18 mm
Density	1.087 g/cm ³	Ec (385nm)	3.68 mJ/cm ²
		Dp (385nm)	0.10 mm

Polymer properties			
Description	ASTM / ISO Method	Metric ¹	Imperial ¹
Tensile strength	D638M	86 MPa	12.48 ksi
Elongation at break	D638M	2 - 4 %	2 - 4 %
Tensile modulus	D638M	2.9 GPa	421 ksi
Flexural strength	D790	88 MPa	12.76 ksi
Flexural modulus	D790	2.7 GPa	392 ksi
IZOD Impact notched	ISO 180	1.98 kJ/m ²	1.46 ft-lb/in ²
Water sorption	D570-98	0,44%	0,44%
HDT-B 0.45 MPa	ISO 75	74° C	165° F
HDT-A 1.80 MPa	ISO 75	66° C	151° F
Shore D Hardness	D2240	82	82

¹Post-cured 15 minutes with the Elegoo Mercury X curing unit. These values may vary and depend on individual machine processing and post-curing.



Liqcreate Tray properties after steam sterilization

Polymer properties				
Description	Method	After UV-cure	After steam sterilization 121°C	After steam sterilization 134°C
Flexural strength	D790	88 MPa	100 MPa	103 MPa
Flexural modulus	D790	2.7 GPa	3.0 GPa	3.1 GPa

¹Post-cured 15 minutes with the Elegoo Mercury X curing unit. These values may vary and depend on individual machine processing and post-curing.

Liqcreate Tray properties after disinfection

Polymer properties						
Description	Method	After UV-cure	70% IPA based	99% IPA based	70% Ethanol based	99% Ethanol based
Flexural strength	D790	88 MPa	87 MPa	81 MPa	89 MPa	79 MPa
Flexural modulus	D790	2.7 GPa	2.7 GPa	2.4 GPa	2.6 GPa	2.3 GPa

¹Post-cured 15 minutes with the Elegoo Mercury X curing unit. These values may vary and depend on individual machine processing and post-curing.

Visit www.liqcreate.com for more information about this product.