



## Liqcreate Clear Impact

A durable and easy to print stereolithography (SLA) and Digital Light Processing (DLP) material that allows expansion into new prototype and end-use applications.

### Product description

Liqcreate Clear Impact is an optically clear photopolymer for SLA and DLP technologies in the range of 385 - 405nm. Parts created with Liqcreate Clear Impact are perfectly transparent, slightly flexible and have an excellent impact resistance.

The high toughness of the material makes it ideal for the production of functional parts which are repeatedly exposed to stress. Low water absorption and weather resistance makes it perfect for outdoor applications.

### Key benefits

- Optically clear
- Excellent Impact resistance
- Good water and chemical resistance
- Low yellowing

### 3D-Printer compatibility

- Moonray S & D
- Miicraft 125
- Form2
- Peopoly Moai
- Asiga Max and 4K
- Anycubic & Elegoo series
- All open 385 - 405nm SLA, DLP and monochrome MSLA 3D-printers





## Liqcreate Clear Impact Technical Data

Liquid properties			
Appearance	Colorless clear liquid	E <sub>c</sub>	13.96 mJ/cm <sup>2</sup>
Viscosity	1000 cps at 25 °C	D <sub>p</sub> metric	0.17 mm
Density	1.12 g/cm <sup>3</sup>	D <sub>p</sub> imperial	6.69 mils

Polymer properties			
Mechanical properties		30 minutes high power LED curing at 60 °C	
Description	ASTM Method	Metric	Imperial
Tensile Strength	D638M	47 MPa	6.8 ksi
Tensile Modulus	D638M	1.4 MPa	203 ksi
Elongation at break	D638M	15 - 25 %	
Flexural Strength	D790M	58 MPa	8.4 ksi
Flexural modulus	D2240	1.7 GPa	247 ksi
IZOD Impact (notched)	D256A	31 J/m	0.58 ft-lb/in
Shore D Hardness	D2240	68	
Water sorption	D570-98	0.50%	

*These values may vary and depend on individual machine processing and post-curing.*