



## Liqcreate Premium Tough

A tough and impact resistant resin for Liquid Crystal Display (LCD) and Digital Light Processing (DLP) 3D-printers. Liqcreate Premium Tough is perfect for manufacturing functional prototypes that require toughness and durability.

### Product description

Liqcreate Premium Tough is a transparent resin which turns into a beautiful milky white polymer during polymerization. 3D-printed parts from this material are durable. Liqcreate Premium Tough is easy to use on all open source DLP and LCD 3D-printers in the range of 385 - 420nm. The high impact strength and exceptional scratch resistance of Liqcreate Premium Tough makes it perfect for the functional prototypes.

### Key benefits

- High impact strength
- Exceptional scratch resistance
- Durable
- MSLA Compatible

### 3D-Printer compatibility

- Anycubic Photon
- Elegoo Mars
- Most open source 385 - 420nm DLP and LCD 3D-printers

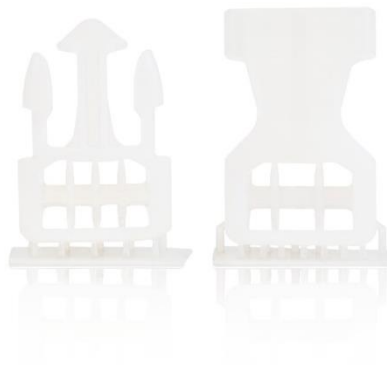
### Order information

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

Liqcreate Premium Tough  
Liqcreate Premium Tough

250gram  
1 kg

Order number LPT00250  
Order number LPT01000





## Liqcreate Premium Tough Technical Data

Liquid properties			
Appearance	Transparent liquid	$E_c$	14.47 mJ/cm <sup>2</sup>
Viscosity	800 cps at 25 °C	$D_p$ metric	0.56 mm
Density	1.18 g/cm <sup>3</sup>	$D_p$ imperial	22.05 mils

Polymer properties			
Mechanical properties		30 minutes high power LED curing at 60°C	
Description	ASTM Method	Metric	Imperial
Tensile Strength	D638M	28 MPa	4.0 ksi
Tensile Modulus	D638M	1.0 GPa	145 ksi
Elongation at break	D638M	15 - 25 %	
Flexural Strength	D790M	38 MPa ( <i>no break</i> )	5.5 ksi ( <i>no break</i> )
Flexural Modulus	D2240	1.0 GPa	145 ksi
IZOD Impact (notched)	D256A	40 J/m	0.81 ft-lb/in
Shore D Hardness	D2240	69	
Water sorption	D570-98	0.6 %	

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

Visit [www.liqcreate.com](http://www.liqcreate.com) for more information about this product.