



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 and industrial spare parts.

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

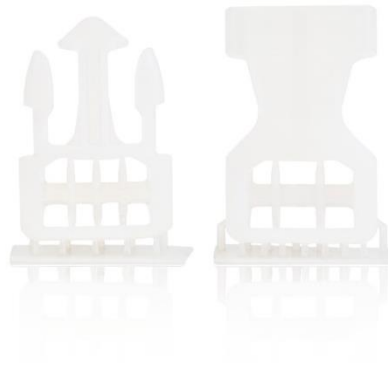
Order information

Order directly at the [Liqcreate store](https://www.liqcreate.com) or send your inquiry to 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 ²
Viscosity	800 cps at 25 °C	D_p metric	0.56 mm
Density	1.18 g/cm ²	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 (no break)	5.5 ksi (no break)
Flexural Modulus	D2240	1.0 GPa	145 ksi
IZOD Impact (notched)	D256A	43 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 for more information about this product.