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# Liqcreate Tough-X

An extremely tough and impact resistant resin for Digital Light Processing (DLP), Liquid Crystal Display (LCD) and laser based 3D-printers. Liquid Tough-X is perfect for manufacturing spare parts that require tough and robust specifications. This product is ideal for industrial use.

## **Product description**

Liqcreate Tough-X is an opaque black photopolymer. 3D-printed parts from this material have exceptional impact strength. Liqcreate Tough-X is easy to use on all open source DLP, LCD and SLA 3D-printers in the range of 385 - 420nm. This material has excellent properties like high impact strength and up to 150% elongation, making it perfect for the production of industrial spare parts and functional ABS type products.

## Key benefits

- Exceptional impact strength
- High elongation
- Heavy duty

#### 3D-Printer compatibility

- Atum3D Station 5
- Asiga
- Most open source 385 420nm DLP, LCD and SLA 3D-printers

#### Order information

Order directly at the <u>Liqcreate store</u> or send your inquiry to <u>order@liqcreate.com</u> with the following order numbers.

Liqcreate Tough-X 250gram Order number LTX00250 Liqcreate Tough-X 1 kg Order number LTX01000



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# Liqcreate Tough-X Technical Data

Liquid properties				
Appearance	Black liquid	Ec	24.20 mJ/cm <sup>2</sup>	
Viscosity	900 cps at 25°C	D <sub>p</sub> metric	0.27 mm	
Density	1.18 g/cm <sup>2</sup>	D <sub>p</sub> imperial	10.81 mils	

Polymer properties					
Mechanical properties		30 minutes high power LED curing			
Description	ASTM Method	Metric	Imperial		
Tensile Strength	D638M	15 MPa	2.2 ksi		
Yield Strength	D638M	8 MPa	1.2 ksi		
Elongation at break	D638M	100 - 150 %			
IZOD Impact (notched)	D256A	72 J/m	1.35 ft-lb/in		
Shore D Hardness	D2240	60			
Shore A Hardness	D2240	95			
Water sorption	D570-98	2.1 %			

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

Visit <a href="www.liqcreate.com">www.liqcreate.com</a> for more information about this product.