Liqcreate Flexible-X

An extremely flexible and soft resin for Digital Light Processing (DLP), Liquid Crystal Display (LCD) and laser based 3D-printers. Liqcreate Flexible-X is perfect for the manufacturing of soft touch and elastic parts for industrial use.

Product description

Liqcreate Flexible-X is an opaque black photopolymer with great processability and print speed on MSLA, DLP and laser based 3D-printers. 3D-printed parts from this material have exceptional flexibility and great rebound properties. Liqcreate Flexible-X is easy to use on all open source DLP, LCD and SLA 3D-printers in the range of 385 – 420nm. Its low hardness of 55 Shore A and elongation up to 160% makes it perfect for the production of a diversity of industrial applications.

Key benefits

- High elongation
- Excellent rebound
- Good tear strength
- Durable soft touch

3D-Printer compatibility

- Asiga
- Anycubic Photon
- Elegoo Mars
- All open source 385 - 420nm DLP, LCD and SLA 3D-printers

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Liqcreate Flexible-X Preliminary Technical Data

Liquid properties			
Appearance	Black liquid	E_C	6.87 mJ/cm^2
Viscosity	950 cps at 25°C	D_P metric	0.35 mm
Density	1.18 g/cm^2	D_P imperial	13.78 mils

Polymer properties			
Mechanical properties		30 minutes high power LED curing at 20°C in glycerol or water	
Description	ASTM Method	Metric	Imperial
Tensile Strength	D638M	2.4 MPa	0.35 ksi
Elongation at break	D638M	120 – 160 %	
Shore A Hardness	D2240	55	
Tear strength	D624	14.9 kN/m	85 lbf/in
Compression set 24 hours at 22°C	D395	2 %	
Water sorption	D570-98	3.3 %	
Tg	D7028	n/a	n/a

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

curing.