



Liqcreate Separation Model

A dental 3D-printing resin compatible with Digital Light Processing (DLP), Liquid Crystal Display (LCD), and laser-based printers, designed to produce dental models with non-adhesion properties toward dental and orthodontic acrylics. These models allow orthodontic acrylics to be polymerized directly on the surface and removed cleanly afterward without the use of a separating agent.

Product description

Liqcreate Separation Model is a specialized photopolymer resin for 3D-printing dental models that have non-adhesion performance toward acrylic-based materials. It is compatible with most open-material DLP, MSLA, and laser-based 3D-printers operating at wavelengths between 385-405 nm. Printed parts exhibit good accuracy, matt surface finish, and predictable separation behavior, making them ideal for workflows where orthodontic appliances and other cold-cure acrylic systems which polymerize directly on the model.

In addition to the fabrication of orthodontic appliances, the resin supports cold-cure repairs for fractures, clasp additions, minor prosthetic extensions, and laboratory or chairside reline materials, based on self-curing denture base polymers.

Key benefits

- Non-adhesion toward acrylic
- No need for separating agent
- Matt surface finish
- Good accuracy

3D-Printer compatibility

- Asiga UV series
- Elegoo & Anycubic series
- Phrozen series
- [Open 385 - 420nm DLP, LCD and SLA 3D-printers](#)

Order information

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

Liqcreate Separation Model

1 kg

Order number LSM01000





Liqcreate Separation Model Technical Data

Liquid properties			
Appearance	Opaque beige liquid	Ec (405nm)	8.71 mJ/cm ²
Viscosity	175 mPa·s at 25° C	D _p (405nm)	0.23 mm
Density	1.10 g/cm ²	Ec (385nm)	8.17 mJ/cm ²
		D _p (385nm)	0.15 mm

Polymer properties			
Description	ASTM / ISO Method	Metric ¹	Imperial ¹
Flexural strength	D790	36 MPa	5.22 ksi
Flexural modulus	D790	1.8 GPa	261 ksi
Water sorption	D570-98	0,56%	0,56%
IZOD Impact (notched)	ISO 180	1.97 kJ/m ²	1.87 ft-lb/in ²
IZOD Impact (notched)	D256	12 J/m	0.89 ft-lb/in
Shore D Hardness	D2240	74	74
Separation to ortho acrylic	Internal method	Pass	

¹Post-cured 30 minutes at 60°C in the Formlabs FormCure (first generation) curing unit. These values may vary and depend on individual 3D printers, processing and post-curing.