T > +31 (0)85 060 58 49
E > info@liqcreate.com
I > www.liqcreate.com

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 high 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

T > +31 (0)85 060 58 49
E > info@liqcreate.com
I > www.liqcreate.com

Liqcreate Separation Model Technical Data

Liquid properties

Appearance	Opaque beige liquid
Viscosity	175 mPa·s at 25°C
Density	1.10 g/cm^2

E_c (405nm)	8.71 mJ/cm^2
D_p (405nm)	0.23 mm
E_c (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	

[1]*Post-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.*