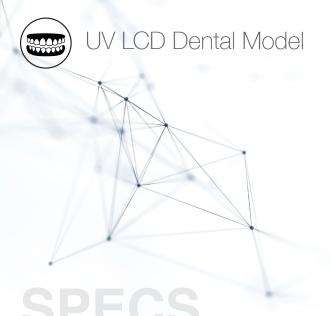
# Technical Data







Dental Model photopolymer resins have been formulated to create detailed, high resolution dental models on the LC Dental 3d printer. The resins have been developed in conjunction with Dental Technologists to ensure an optimal colour, feel, and working characteristics. Ideal for orthodontic, study and working models. The prints show minimal shrinkage with a tolerance of 50µm max deviation on a full arch. Printed dental parts exhibit extremely high tensile properties and hardness, allowing for their use as a working or a vacuum forming model. Dental model resins will provide excellent print performance on the LC Precision printer range, allowing you to print crisp and clean dental models.

#### PROCESSING INSTRUCTIONS

Follow the procedures laid out in your 3D Liquid Crystal user manual. Polymer should be poured into the tray away from direct sunlight. Polymer can be reused but should be poured through a filter to remove solid lumps. Keep hood on at all times. Liquid polymer is soluble in water and soap. We recommend the use of Photocentric Resin Cleaner for cleaning 3d printed objects. Objects should be post cured under UV in 60°C warm water to obtain the appropriate tensile properties and give a great surface finish.

## IDEAL APPLICATIONS

- Orthodontic moulds
- Die models
- Study Models



#### **DATA**

Viscosity	250 cPs
(At 25°C Brookfield spindle 3)	
Hardness	90 Shore D

ASTM D2240 (After post exposure)

**Tensile strength** 70 MPa ASTM D638 (After post exposure Postcured 120 mins UV and heat 60°C water)

Young's modulus 2800 MPa
ASTM D638 (After post exposure Postcured 120 mins UV and

heat 60°C water)

Elongation at break 4.0%

ASTM D638 (Postcured 120 mins UV and heat 60°C water)

Impact strength
notched Izod

ASTM D256 (After post exposure)

Flexural strength 85 MPa ASTM D792 (After post exposure)

Flexural modulus 1700 MPa ASTM D792 (After post exposure)

Water absorption (24 h) < 0.3 wt%

 Storage
 10<t>50°C

 Density
 1.10 g/cm3

### **AVAILABLE COLOURS**

Beige, Grey, White

Available in 1kg bottles.