



## Daylight Magna Dental Model



# SPECS

### FEATURES

Dental Model White polymer has been formulated to create detailed, high resolution dental models on the LC Magna printer range. The resin has 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 resin will provide excellent print performance on the LC Magna printer range, allowing you to print crisp and clean dental models.

### PROCESSING INSTRUCTIONS

Follow the procedures laid out in your 3D Liquid Crystal's user manual. Polymer should be poured into the vat away from direct sunlight. Polymer can be reused but should be poured through a filter to remove solid lumps. Keep the Magna door closed to prevent accidentally curing resin. Liquid polymer is soluble in water and soap however we recommend Photocentric's Resin Cleaner, or IPA, followed by water. The cleaned objects should be post exposed at 70°C under UV for a minimum of 1 hour to obtain the maximum properties. Alternatively, the parts can be post exposed in clean warm water under UV for 1 hour.

### IDEAL APPLICATIONS

- Orthodontic moulds
- Die models
- Study Models

### DATA

<b>Viscosity</b> (At 25°C Brookfield spindle 3)	900 cPs
<b>Hardness</b> ASTM D2240 (After post exposure)	90 Shore D
<b>Tensile strength</b> ASTM D638 (After post exposure Postcured 120 mins UV and heat 60°C water)	63 MPa
<b>Young's modulus</b> ASTM D638 (After post exposure Postcured 120 mins UV and heat 60°C water)	3020 MPa
<b>Elongation at break</b> ASTM D638 (Postcured 120 mins UV and heat 60°C water)	4.3%
<b>Impact strength notched Izod</b> ASTM D256 (After post exposure)	3.2 kJ/m <sup>2</sup>
<b>Flexural strength</b> ASTM D792 (After post exposure)	95 MPa
<b>Flexural modulus</b> ASTM D792 (After post exposure)	2200 MPa
<b>Heat deflection temperature</b>	95°C
<b>Water absorption (24 h)</b>	< 0.2 wt%
<b>Storage</b>	10<t>50°C
<b>Density</b>	1.09 g/cm <sup>3</sup>

### AVAILABLE COLOURS

#### White

Available in 5 kg bottles.