



Daylight Precision Concept

SPECS

FEATURES

Precision Concept has been designed for creating high definition jewellery parts especially for the Precision Printer. The printed parts will display a high tensile strength and durability, as well as a high accuracy and detail for the use in the modern jewelry market. This resin will allow designers to display highly accurate and detailed jewellery models. In addition, the high print speed of this resin, will allow jewelers to try their designs directly on the customer's hands. The printed parts will display a smooth surface and a good surface finish. Moreover, patterns can be easily painted with an aerobrush. Key benefits include high tensile strength, high print speed, high accuracy, smooth surface, easy to use and finish.

PROCESSING INSTRUCTIONS

Follow procedure laid out in your 3D Liquid Crystal's 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. In order to clean the printed objects, we recommend Photocentric's Resin Cleaner, or IPA, followed by water. The cleaned objects should be post exposed at 80°C under UV for a minimum of 1 hour to obtain the maximum tensile properties. Alternatively, the parts can be post exposed in water under UV for 30 minutes.

IDEAL APPLICATIONS

- Jewellery



DATA

Viscosity (At 25°C Brookfield spindle 3)	690cPs
Hardness ASTM D2240 (After post exposure)	92 Shore D
Tensile strength ASTM D638 (After post exposure, 1h UV)	61 MPa
Elongation at break ASTM D638 (After post exposure, 1h UV)	3.7 %
Young's modulus ASTM D638 (After post exposure, 1h UV)	2810 MPa
Impact strength notched Izod ASTM D256 (After post exposure)	1.97 kJ/m2
Flexural strength ASTM D792 (After post exposure)	87 MPa
Flexural modulus ASTM D792 (After post exposure)	2060 MPa
Heat deflection temperature	85°C
Water absorption (24 h)	<0.2 wt%
Storage	10<t>50°C
Density	1.1 g/cm3

AVAILABLE COLOURS

Green

Available in 1 kg bottles.