



## Daylight Precision Mould

# SPECS

### FEATURES

Precision Mould has been designed for creating high definition jewellery parts especially for the Precision Printer. The printed parts will display a high tensile strength, high accuracy and detail for the use in the modern jewellery market. The parts printed with this resin withstand high temperatures (up to 180°C) and pressures required for vulcanizing. Parts printed with the Precision Mould resin are ideal for the use as pattern in high resolution silicon rubber moulds. The printed parts will display a smooth surface and a good surface finish.

Key benefits include high tensile strength, high accuracy, no shape deformation at elevated temperatures, smooth surface, easy to use and finish.

**Applications:** Jewellery

### PROCESSING INSTRUCTIONS

Follow the procedures laid out in your 3D Liquid Crystal user manual. For best post-processing results, clean using a Photocentric Wash 15L with Photocentric Resin Cleaner for maximum 15 minutes. Rinse thoroughly with warm to hot water. Place in Cure M or L2 for 20-40 minutes in water at 60-80°C. followed by UV light at 80 °C for minimum of 1 hour to obtain the maximum tensile properties.



### DATA

<b>Viscosity</b> (At 25°C Brookfield spindle 3)	700cPs
<b>Hardness</b> ASTM D2240 (After post exposure)	90 Shore D
<b>Tensile strength</b> ASTM D638 (After post exposure, 1h UV)	60 MPa
<b>Elongation at break</b> ASTM D638 (After post exposure, 1h UV)	2.3%
<b>Young's modulus</b> ASTM D638 (After post exposure, 1h UV)	2780 MPa
<b>Impact strength notched Izod</b> ASTM D256 (After post exposure)	1.9 kJ/m2
<b>Flexural strength</b> ASTM D792 (After post exposure)	101 MPa
<b>Flexural modulus</b> ASTM D792 (After post exposure)	2260 MPa
<b>HDT</b>	92°C
<b>Water absorption (24 h)</b>	<0.2 wt%
<b>Storage</b>	10<t>50°C
<b>Density</b>	1.1 g/cm3

### AVAILABLE COLOURS

**Blue**

Available in 1 kg bottles.