



## Daylight Precision Cast Violet

# SPECS

### FEATURES

Precision Cast has been precisely formulated to work with our Precision Printer range for creating castable jewellery parts displaying the highest level of detail. Printed parts are exceptionally accurate, displaying the highest level of detail and are suitable for use in direct investment casting, making them perfect for the modern jewellery market. During the casting process, parts will burn evenly, with virtually no ash, expansion or residues leaving you with an ideal mould for casting metals. Final cast parts are extremely accurate, displaying a smooth surface finish. Please refer to our casting guidelines for optimal casting results.

#### Key Benefits:

- Virtually no ash, expansion or residue during burnout
- Highly accurate printed and cast parts with a good, smooth surface finish.

**Applications:** Jewellery, Dental Casts, Models

### PROCESSING INSTRUCTIONS

Follow the procedures laid out in your 3D Precision's user manual. Before printing with Violet Castable make sure to shake well and mix with the card provided. Please be aware: As this resin contains a concentration of wax there is the chance that wax separation may occur in unpredictable climates. To solve this issue, we advise warming up the resin to around 50 °C and then shaking this will re-incorporate the wax.

For best post-processing results, rinse with warm water then clean using a Photocentric Wash 15L with Photocentric Resin Cleaner for maximum 15 minutes. Rinse thoroughly with warm to hot water again. If available, dry with a compressed air gun. This will ensure all holes and slots are open. Place in oven for 4 hours at 120°C, surfaces should be tack free. If still tacky, return to oven at 120°C for 20-minute periods.



### DATA

<b>Viscosity</b> (At 25°C Brookfield spindle 3)	630 cPs
<b>Hardness</b> (ASTM D2240 After post exposure)	75 Shore D
<b>Tensile strength</b> (ASTM D638 After Post Exposure)	19.5 MPa
<b>Tensile Modulus</b> (ASTM D638 After post exposure, 1h UV)	1380 MPa
<b>Impact strength notched Izod</b> ASTM D256 (After post exposure)	1.2 kJ/m <sup>2</sup>
<b>Flexural strength</b> ASTM D792 (After post exposure)	22 MPa
<b>Flexural modulus</b> ASTM D792 (After post exposure)	632 MPa
<b>Water absorption (24 h)</b>	0.6 wt%
<b>Elongation at break</b> (ASTM D638 After post exposure, 1h UV)	2-3%
<b>Storage</b>	10<t>50°C
<b>Density</b>	1.20 g/cm <sup>3</sup>

### AVAILABLE COLOURS Violet

Available in 1 kg bottles.