

# SLA Materials

## C-UV 9400

### Product Description

C-UV 9400 is an ABS like SL resin which has accurate and durable features. It is designed for solid state SLA platforms. C-UV 9400 can be applied in master patterns, concept models, general parts and functional prototypes in the field of automotive, medical and consumer electronics industries. Parts built from C-UV 9400 stay durable for over 6.5 months.

### Typical Features

- Liquid resin's medium viscosity, so easy recoating, easy to clean parts and machines
- Improved strength retained, improved dimensions retention of parts in humid condition
- Need minimal part finishing
- Long shelf life in machine

### Typical Benefits

- Need less part finishing time, easier post-curing
- Builds accurate and high tough parts with an improved dimensional stability
- High quality controls for vacuum casting parts
- Low shrink and good resistance to yellowing
- Magnificent white color
- Outstanding machinable SLA material

### Physical Properties — Liquid Material

Appearance	White
Density	1.13 g/cm <sup>3</sup> at 25°C
Viscosity	355cps at 28°C
DP	0.145mm
EC	9.3 mJ/cm <sup>3</sup>
Building Layer Thickness	0.1mm

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## Mechanical Properties of Post-Cured Material

Measurement	Test Method	Value
		90-minute UV post-cure
Hardness (Shore D)	ASTM D2240	83
Flexural Modulus	ASTM D790	2692 - 2775
Flexural Strength	ASTM D790	69 - 74
Tensile Modulus	ASTM D638	2189 - 2395
Elongation at Break	ASTM D638	27 - 31
Impact Strength, notched Izod, J/m	ASTM D638	12 - 20%
Heat Deflection temperature, °C	ASTM D256	58 - 70
Glass Transition, T <sub>g</sub>	ASTM D648@66PSI	52
Coefficient of Thermal Expansion	DMA, E''peak	62
Density	TMA (T<T <sub>g</sub> )	97*E-6
		1.16