

# C-UV 9400

## Product Description

C-UV 9400 is an ABS-like Stereolithography (SLA) 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.

## Typical Features

- Good accuracy and dimensional stability.
- Suitable for a wide range of applications, including vacuum casting masters.
- Resin's medium viscosity supports facilitates easier post-curing and less part finishing time.

## Physical Properties (Liquid)

Appearance	White
Density	~1.13 g/cm <sup>3</sup> @25 °C
Viscosity	355 cps@25 °C

## Optical Properties

Critical Exposure (Ec)	9.3 mJ/cm <sup>2</sup>
Penetration Depth (Dp)	0.145 mm
Recommended Layer Thickness of Construction	0.1 mm

## Mechanical Properties (90-minute UV post-cure)

Property Description	Test Method	Metric
Heat Deflection Temperature (HDT)	ASTM D648 @ 66 psi	52 °C
Glass Transition (Tg)	DMA, E'' peak	62
Coefficient of Thermal Expansion	TMA (T<Tg)	97 × 10 <sup>-6</sup> /°C
Tensile Modulus	ASTM D638	2189 - 2395 MPa
Flexural Modulus	ASTM D790	2692 - 2775 MPa
Tensile Strength	ASTM D638	27 - 31 MPa
Flexural Strength	ASTM D790	69 - 74 MPa
Izod Impact (Notched)	ASTM D256	58 - 70 J/m
Elongation at Break	ASTM D638	12 - 20%
Hardness (Shore D)	ASTM D2240	83
Density		1.16 g/cm <sup>3</sup>

\* C-UV9400 should not be used or stored at high temperatures. Please use it below 25°C. The recommended usage and storage temperature is 18–25°C.

Note: Material performance may vary depending on application, processing conditions and end-use environment. The information in this spec sheet is provided as typical values only and is not guaranteed.