

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. The parts durability building with C-UV 9400 is over 6.5 months.

TYPICAL FEATURES

- Liquid resin's medium viscosity, so easy recoating, easy 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
- Building 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	1.13g/cm ³ @ 25 °C
Viscosity	355 cps @ 28 °C
Dp	0.145 mm
Ec	9.3 mJ/cm ²
Building layer thickness	0.1mm

Mechanical Properties of Post-Cured Material

MEASUREMENT	TEST METHOD	VALUE
		90-minute UV post-cure
Hardness, Shore D	ASTM D 2240	83
Flexural modulus, Mpa	ASTM D 790	2,692-2,775
Flexural strength, Mpa	ASTM D 790	69- 74
Tensile modulus, MPa	ASTM D 638	2,189-2,395
Tensile strength, MPa	ASTM D 638	27-31
Elongation at break	ASTM D 638	12 -20%
Impact strength, notched Izod, J/m	ASTM D 256	58 - 70
Heat deflection temperature, °C	ASTM D 648 @66PSI	52
Glass transition, Tg°C	DMA, E"peak	62
Coefficient of thermal expansion, /°C	TMA(T<Tg)	97*E-6
Density, g/cm ³		1.16