

SH8900-H TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

SH8900-H is an ABS like SL resin which has accurate and durable features. It is designed for solid state SLA platforms. SH8900-H 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 duability building with SH8900-H 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
- -Buliding 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	1.11-~1.15g/cm³ @ 25 °C	
Viscosity	405~500 cps @ 25 ℃	
Dp	0.135~0.152 mm	
Ec	8.9~9.5 mJ/cm ²	
Building layer thickness	0.05~0.12mm	

MECHANICAL PROPERTIES OF POST-CURED MATERIAL

MEASUREMENT	TEST METHOD	VALUE
90-minute UV post-cure 90		
Hardness, Shore D	ASTM D 2240	77~88
Flexural modulus, Mpa	ASTM D 790	2,682-2,778
Flexural strength, Mpa	ASTM D 790	70- 74
Tensile modulus, MPa	ASTM D 638	2,599-2,715
Tensile strength, MPa	ASTM D 638	40-58
Elongation at break	ASTM D 638	12 -19%
Poisson`s Ratio	ASTM D 638	0.4-0.44
Impact strength notched Izod, J/m	ASTM D 256	35 - 45
Heat deflection temperature, ℃	ASTM D 648 @66PSI	55~68
Glass transition,Tg , °C	DMA, E" peak	60~75
Coefficient of thermal expansion, /°C	TMA(T <tg)< th=""><th>90~102*E-6</th></tg)<>	90~102*E-6
Density, g/cm ³		1.12~1.18
Dielectric Constant, 60 Hz	ASTM D 150-98	4.1~5.0
Dielectric Constant, 1 kHz	ASTM D 150-98	3.2~4.2
Dielectric Constant, 1 MHz	ASTM D 150-98	3.2~4.1
Dielectric Strength, kV/mm	ASTM D 1549-97a	12.7~16.2