

ABS resin

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

ABS resin an ABS like SL resin which has accurate and durable features. It is designed for solid state SLA platforms. ABS resin 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 ABS resin 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

- Building accurate and high tough parts with an improved dimensional stability
- Color is more close to the ABS
- Outstanding machinable SLA material

Physical Properties – Liquid Material

Appearance	White
Density	1.13g/cm ³ @ 25 °C
Viscosity	230~330 cps @ 27 °C
Dp	0.141 mm
Ec	7.3 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	82
Flexural modulus , Mpa	ASTM D 790	2,492-2,550
Flexural strength , Mpa	ASTM D 790	71- 75
Tensile modulus , MPa	ASTM D 638	2,431-2,545
Tensile strength , MPa	ASTM D 638	41-55
Elongation at break	ASTM D 638	7 -10%
Poisson`s Ratio	ASTM D 638	0.38-0.41
Impact strength notched Izod, J/m	ASTM D 256	27- 37
Heat deflection temperature, °C	ASTM D 648 @66PSI	52~63

Glass transition, T _g , °C	DMA, E'' peak	55~68
Coefficient of thermal expansion, /°C	TMA(T<T _g)	92*E-6
Density, g/cm ³		1.15
Dielectric Constant 60 Hz	ASTM D 150-98	4.5
Dielectric Constant 1 kHz	ASTM D 150-98	3.8
Dielectric Constant 1 MHz	ASTM D 150-98	3.6
Dielectric Strength kV/mm	ASTM D 1549-97a	14.7

The use temperature and storage temperature of ABS resin should not be too high, please use below 25 degrees Celsius; The recommended temperature for use and storage is 18-25 degrees Celsius.