

ZR300

TECHNICAL DATA SHEET

White, durable, accurate SLA resin

PRODUCT DESCRIPTION

ZR300 is a SLA resin which has high elongation and excellent flexibility that can be produced rigidity, tough, water-resistant and low shrinkage parts.

TYPICAL FEATURES

- Good dimension stability and maintains strength even in humid conditions
- ABS-like good surface parts with high elongation and excellent flexibility
- Liquid resin has low viscosity with high photospeed, so easy recoating, easy clean parts and machines
- Good green strength requires minimal finishing
- The SLA resin can build accurate, durable parts in ABS-like pearl white color, because the liquid resin is colorless clear and the cured resin becomes pearl white in this process, so the production are distinctly recognizable during the build

TYPICAL APPLICATION

- ZR300 simulates ABS material, it can be used for many applications of the automotive, medical and consumer electronics industries.
- Designed for use on solid state SLA platforms
- It can provide a number of conceptual models working envelope and useful prototype where snap-fit property is necessary.
- Durable, white, water-resistant, low shrinkage resin for stereolithography for SLA system.

Physical Properties – Liquid Material

Appearance	White
Density	1.13 g/cm ³ @ 25 °C
Viscosity	310 cps @ 28 °C, 265 cps @ 30 °C
Dp	0.12 mm
Ec	15 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	86
Flexural modulus , Mpa	ASTM D 790	1700-2200
Flexural strength, Mpa	ASTM D 790	64-81
Tensile modulus , MPa	ASTM D 638	1600-2200
Tensile strength , MPa	ASTM D 638	37-45
Elongation at break	ASTM D 638	5 -8%
Impact strength,notched Izod, J/m	ASTM D 256	35-60
Heat deflection temperature, °C	ASTM D 648 @66PSI	60
Glass transition,Tg , °C	DMA, E” peak	68
Coefficient of thermal expansion,, /°C	TMA(T<Tg)	100*E-6
Density , g/cm ³		1.16

STORAGE INFORMATION

Cold storage in a dry and backlighting location, can extend the service life.