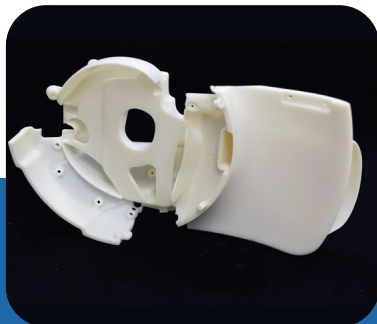




Somos 14122

Technical Data



Material Overview

Somos 14122 is a low-viscosity liquid photopolymer that produces water-resistant, durable and accurate three-dimensional parts. Somos® Imagine 14122 has a white, opaque appearance with performance that mirrors production plastics like ABS and PBT.

Advantage

- > Low-viscosity liquid
- > Water-resistant
- > Durable and accurate three-dimensional parts

Ideal Applications

- > Automotive
- > Aerospace
- > Consumer product
- > Functional prototypes, humidity
- > Water-resistant concept models
- > Durable low volume production parts

Technical Datasheet

Liquid Properties		Optical Properties		
Appearance	Opaque white	Dp	13.0 mJ/cm ²	[critical exposure]
Viscosity	~340 cps@30°C	Ec	6.25 mils	[slope of cure-depth vs. ln (E) curve]
Density	~1.16 g/cm ³ @ 25°C	Building layer thickness	64 mJ/cm ²	

Mechanical properties			
ASTM Method	Property Description	Metric	Imperial
D638M	Tensile strength at yield	47.2–47.6 MPa	6.8–6.9 ksi
D638M	Tensile strength at break	33.8–40.2 MPa	4.9–5.8 ksi
D638M	Elongation at break	6–9%	6–9%
D638M	Elongation at yield	3%	3%
D638M	Modulus of elasticity	2,370–2,650 MPa	344–384 ksi
D638M	Poisson's ratio	0.41	0.41
D790M	Flexural strength	66.8–67.8 MPa	9.7–9.8 ksi
D790M	Flexural modulus	2,178–2,222 MPa	315–322 ksi
D256A	Izod Impact (Notched)	23–29 J/cm	0.43–0.54 ft-lb/in
D3763	High speed puncture-impact	4.6 J	3.36 ft-lb/in
D2240	Hardness (Shore D)	79	79
D570–98	Water absorption	0.40%	0.40%

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