

# Somos® 9120™

## Stereolithography

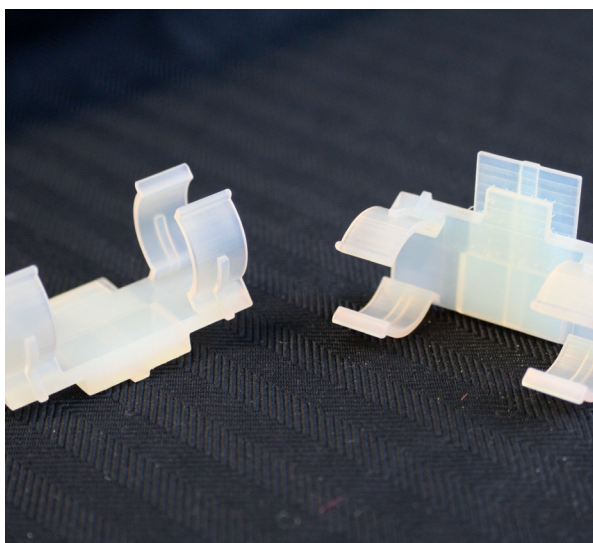
**A translucent stereolithography material for when you need to see the inner workings of the part you're creating.**

**Somos® 9120** is a transparent stereolithography resin that is easy to use and fast to build.

This stereolithography resin produces translucent, accurate parts that are semiflexible.

Parts produced with **Somos® 9120** exhibit excellent water and temperature resistance and mimic polypropylene.

**Somos® 9120** is ideal for applications such as fluid flow analysis, electrical casings and automotive parts. As this material is semi-flexible, it can also be used for snap-fit functional testing.



### Key Benefits

- Highly transparent
- Semi-flexible
- Easy to use and finish

### Ideal Applications

- Automotive parts
- Electrical casings
- Fluid flow analysis

LIQUID PROPERTIES		OPTICAL PROPERTIES		
Appearance	Clear	$E_c$	10.9 mJ/cm <sup>2</sup>	[critical exposure]
Viscosity	~450 cps @ 30°C	$D_p$	5.6 mils	[slope of cue-depth vs. ln (E) curve]
Density	~1.13 g/cm <sup>3</sup> @ 25°C	$E_{10}$	65 mJ/cm <sup>2</sup>	exposure that gives 0.254 mm (.010 inch) thickness]

MECHANICAL PROPERTIES		UV POSTCURE	
ASTM Method	Property Description	Metric	Imperial
D638M	Tensile Modulus	1,350 MPa	7.3 ksi
D638M	Tensile Strength	31 MPa	4.5 ksi
D638M	Elongation at Yield	20%	
D790M	Flexural Strength	45 MPa	6.5 ksi
D2240	Flexural Modulus	1,380 MPa	200 ksi
D256A	Izod Impact (Notched)	51 J/m	0.95 ft-lb/in
D2240	Hardness (Shore D)	81	

These values may vary and depend on individual machine processing and post-curing practices.