




The
Design to
Manufacturing Co.



MATERIAL **9120** OVERVIEW

For more information or advice:  theD2Mco.com/contact-us

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Somos® 9120™

Stereolithography

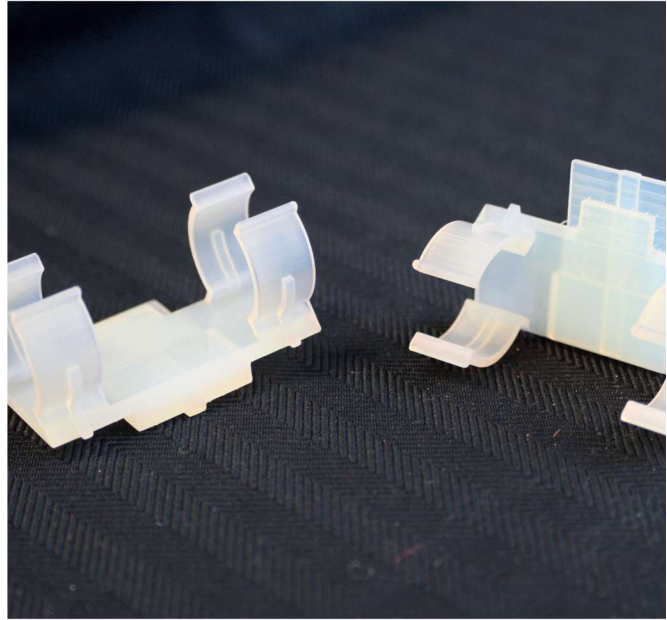
A translucent stereolithography material for when you need to see the inner workings of the part you're creating.

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 ²	[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 ³ @ 25°C	E_{10}	65 mJ/cm ²	[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.

Find the Perfect Material for Your Application

From strength and flexibility to biocompatibility and color, our experts help you select materials that meet your part performance and production goals - every time.

TALK TO AN EXPERT

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100%
Tailored
Advice