



Somos® 9120

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

Product Description

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 semi-flexible. 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 cure-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	196 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.

DSM Functional Materials
Somos® Material Group

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