

Somos® 9110

Unspecified

DSM Somos®

Message:

DSM's Somos® 9110 is a liquid photopolymer that produces robust, functional and accurate parts using stereolithography machines. The material offers superior chemical resistance, a wide processing latitude and excellent tolerance to a broad range of temperatures and humidity during and after the build. Parts created from Somos® 9110 exhibit superior fatigue properties, strong memory retention and high quality up-facing and down-facing surfaces. Somos® 9110 also offers a good balance of properties between rigidity and functionality. The resulting part properties are ideal for master patterns in rubber molding applications.

Applications

Somos® 9110 photopolymer is used in the solid imaging process to build three-dimensional parts. also useful in creating parts for applications where durability and robustness are critical requirements (e.g., automobile components, electronic housings, medical products, large panels and snap-fit parts).

General Information			
Features	Durable		
	Fatigue Resistant		
	Good Chemical Resistance		
	Good Surface Finish		
	Good Wear Resistance		
	Humidity Resistant		
	Medium Rigidity		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
	Housings		
	Medical/Healthcare Applications		
	Mold Making		
	Patterns		
	Prototyping		
Appearance	Clear Amber		
Forms	Liquid		
Processing Method	3D Printing, Stereolithography		
Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm³	
Viscosity (30°C)	230	mPa · s	
Deflection Temperature	50	°C	ASTM D648
Critical Exposure	8.00	mJ/cm²	
Penetration Depth	132.1	µm	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	83		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method

Tensile Modulus	1590	MPa	ASTM D638
Tensile Strength	31.0	MPa	ASTM D638
Tensile Elongation (Yield)	15 to 21	%	ASTM D638
Flexural Modulus	1450	MPa	ASTM D790
Flexural Strength	44.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	55	J/m	ASTM D256A

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