

DSM Somos® 8120 Epoxy Photopolymer (discontinued **)

Category : Polymer , Rapid Prototyping Polymer , Thermoset , Epoxy

Material Notes:

DescriptionDSM Somos® 8120 is a high-speed liquid photopolymer that produces flexible, high-impact-strength, accurate parts using stereolithography machines. It has a wide processing latitude and excellent tolerance to a wide temperature and humidity range during and after build. This material is especially useful in functional applications where flexibility and impact-strength are critical requirements (e.g. plastic bottles, packaging, automobile panels, electronic enclosures, medical products, and snap-fit parts).ApplicationSomos® 8120 Photopolymer is used in the solid imaging process to build three-dimensional parts.Information Provided by DSM Desotech Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Somos-8120-Epoxy-Photopolymer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in³	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Viscosity	600 cP	600 cP	
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	76	76	ASTM D2240
Tensile Strength, Yield	26.0 MPa	3770 psi	ASTM D638M
Elongation at Break	27 %	27 %	ASTM D638M
Modulus of Elasticity	0.276 - 0.703 GPa	40.0 - 102 ksi	ASTM D638M
Flexural Strength	26.0 MPa	3770 psi	ASTM D790M
Flexural Modulus	0.690 GPa	100 ksi	ASTM D790M
Izod Impact, Notched	0.590 J/cm	1.11 ft-lb/in	ASTM D256A
Tear Strength, Total	205 N	46.1 lb (f)	Graves; ASTM D1004

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	54.0 °C	129 °F	ASTM D648

Descriptive Properties	Value	Comments
Appearance	Transparent Amber	
Dp (mm)	0.157	Slope of cure-depth vs. ln(E) curve

Descriptive Properties	Value	Comments
E5 (mJ/cm2)	15	Exposure that gives 0.127mm thickness
Ec (mJ/cm2)	6.75	Critical exposure

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