

DSM Somos® 8110 Epoxy Photopolymer (discontinued **)

Category : Polymer , Rapid Prototyping Polymer , Thermoset , Epoxy

Material Notes:

DescriptionDSM Somos® 8110 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).**Application**Somos® 8110 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-8110-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	77	77	ASTM D2240
Tensile Strength, Yield	18.0 MPa	2610 psi	ASTM D638M
Elongation at Break	27 %	27 %	ASTM D638M
Modulus of Elasticity	0.317 GPa	46.0 ksi	ASTM D638M
Flexural Strength	11.0 MPa	1600 psi	ASTM D790M
Flexural Modulus	0.310 GPa	45.0 ksi	ASTM D790M
Izod Impact, Notched	0.870 J/cm	1.63 ft-lb/in	ASTM D256A
Tear Strength, Total	196 N	44.1 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)	0.135	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	Critical exposure

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