

DSM Somos® 7110 Epoxy Photopolymer, UV Postcure (discontinued **)

Category : Polymer , Rapid Prototyping Polymer , Thermoset , Epoxy

Material Notes:

DescriptionDSM Somos® 7110 Photopolymer is a humidity-tolerant, high heat-deflection-temperature, low-curl, high-speed liquid that produces rigid, highly accurate parts. It produces exceptional, undistorted thin walls and down-facing surfaces and exhibits good processing latitude.**Application**Somos® 7110 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-7110-Epoxy-Photopolymer-UV-Postcure-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in³	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Viscosity	700 cP	700 cP	
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	82	82	ASTM D2240
Tensile Strength, Yield	56.0 MPa	8120 psi	ASTM D638M
Elongation at Break	5.4 - 7.1 %	5.4 - 7.1 %	ASTM D638M
Modulus of Elasticity	2.117 GPa	307.0 ksi	ASTM D638M
Flexural Strength	85.0 MPa	12300 psi	ASTM D790M
Flexural Modulus	2.423 GPa	351.4 ksi	ASTM D790M
Izod Impact, Notched	0.278 J/cm	0.521 ft-lb/in	ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	59.0 - 72.0 °C	138 - 162 °F	ASTM D648

Descriptive Properties	Value	Comments
Appearance	Transparent Amber	
Dp (mm)	0.14	Slope of cure-depth vs. ln(E) curve
E10 (mJ/cm²)	51	Exposure that gives 0.254mm thickness
E5 (mJ/cm²)	20	Exposure that gives 0.127mm thickness

Descriptive Properties	Value	Comments
Ec (mJ/cm2)	0.2	Critical exposure

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