

DSM Somos® 7110 Epoxy Photopolymer, Green Parts (discontinued **)

Category : Polymer , Rapid Prototyping Polymer , Thermoset , Epoxy

Material Notes:

Description DSM 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-Green-Parts-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	
	@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	81	81	ASTM D2240
Tensile Strength, Yield	44.0 MPa	6380 psi	ASTM D638M
Elongation at Break	4.7 - 7.4 %	4.7 - 7.4 %	ASTM D638M
Modulus of Elasticity	1.758 GPa	255.0 ksi	ASTM D638M
Flexural Strength	59.0 MPa	8560 psi	ASTM D790M
Flexural Modulus	1.71 GPa	248 ksi	ASTM D790M
Izod Impact, Notched	0.262 J/cm	0.491 ft-lb/in	ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	45.0 - 54.0 °C	113 - 129 °F	ASTM D648

Descriptive Properties	Value	Comments
Appearance	Transparent Amber	
Dp (mm)	0.14	Slope of cure-depth vs. ln(E) curve
E10 (mJ/cm ²)	51	Exposure that gives 0.254mm thickness
E5 (mJ/cm ²)	20	Exposure that gives 0.127mm thickness

Descriptive Properties	Value	Comments
Ec (mJ/cm ²)	1.2	Critical exposure

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