

DSM Somos® 7120 Epoxy Photopolymer, Green Parts (discontinued **)

Category : Polymer , Rapid Prototyping Polymer , Thermoset , Epoxy

Material Notes:

Description DSM Somos® 7120 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® 7120 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-7120-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	88	88	ASTM D2240
Tensile Strength, Yield	44.0 MPa	6380 psi	ASTM D638M
Elongation at Break	1.3 - 7.5 %	1.3 - 7.5 %	ASTM D638M
Modulus of Elasticity	2.222 GPa	322.3 ksi	ASTM D638M
Flexural Strength	89.0 MPa	12900 psi	ASTM D790M
Flexural Modulus	2.57 GPa	373 ksi	ASTM D790M
Izod Impact, Notched	0.252 J/cm	0.472 ft-lb/in	ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	<= 65.0 °C	<= 149 °F	ASTM D648

Descriptive Properties	Value	Comments
Appearance	Transparent Amber	
Dp (mm)	0.123	Slope of cure-depth vs. ln(E) curve
E10 (mJ/cm ²)	64	Exposure that gives 0.254mm thickness
E5 (mJ/cm ²)	23	Exposure that gives 0.127mm thickness

Descriptive Properties	Value	Comments
E_c (mJ/cm ²)	1	Critical exposure

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