Proto3000 Accura® 45HC Plastic Stereolithography (SLA) Prototyping Polymer

Category : Polymer, Rapid Prototyping Polymer

Material Notes:

A high speed material, with excellent thermal and moisture resistance for producing functional prototypes in 3D Systems' SLA 250 systems. Benefits: Fast build speed: Provides build speeds that are significantly faster than other resin - up to two times the speed of SL 5170Fast build time results in better utilization of older SL equipmentBuild larger parts than were previously practical with other materialsFaster delivery to end customersHigh temperature resistance combined with good durability: Suitable for use at temperatures in excess of 100 °C (212 °F)Durable enough for limited snap-fit testingNylon 6:6 plastic properties: Suitable for thin-walled parts that require the stiffness of high performance engineering plasticsParts retain both accuracy and stiffness even in wet and humid environments: Longer part life with out significant degradationParts that can be used in wet applications such as consumer appliance design, with out excessive softening (or swelling)Fully developed and tested build stylesMaximize reliability with no user R&DApplications: High temperature testing:-Automotive "under-the-hood" parts- Lighting components and accessories- HVAC componentsThin-wall enclosures that require high stiffness and durabilityParts involved in water-base or high humidity testing- Consumer applianceForm, fit and function testingGeneral purpose prototypingInvestment casting using QuickCast[™] build styleRigid snap-fit assembliesInformation provided by Proto3000 for their protoyping engineering services.

Order this product through the following link: http://www.lookpolymers.com/polymer_Proto3000-Accura-45HC-Plastic-Stereolithography-SLA-Prototyping-Polymer.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	Solid
	1.41 g/cc	0.0509 lb/in ³	Liquid
Viecesity	475 cP	475 cP	
Viscosity	@Temperature 30.0 °C	@Temperature 86.0 °F	

87 I.O MPa 8560 - 88 % 4.8 - 5.4 %		
% 4.8 - 5.4 %		
	% ASTM D638	
96 GPa 400 - 429	ksi ASTM D638	
01 MPa 13600 - 14	4600 psi ASTM D790	
90 GPa 400 - 421	ksi ASTM D790	
0.160 J/cm 0.206 - 0.3	300 ft-lb/in ASTM D256	
	01 MPa 13600 - 1 90 GPa 400 - 421	D1 MPa 13600 - 14600 psi ASTM D790 90 GPa 400 - 421 ksi ASTM D790

 Thermal Properties
 Metric
 English
 Comments



Thermal Properties	72.0 um/m-°C Metric	40.0 uin/in-°F English	Comments
	@Temperature 0.000 - 20.0 °C	@Temperature 32.0 - 68.0 °F	
	160 μm/m-°C	88.9 µin/in-°F	
	@Temperature 90.0 - 150 °C	@Temperature 194 - 302 °F	T>Tg; ASTM E831-93
Deflection Temperature at 0.46 MPa (66 psi)	58.0 °C	136 °F	ASTM D648
	103 °C	217 °F	with 160°C Thermal Postcure; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	51.0 °C	124 °F	ASTM D648
Glass Transition Temp, Tg	66.0 - 87.0 °C	151 - 189 °F	DMA, E"

Descriptive Properties	Value	Comments
Appearance	Clear Amber	
Critical Exposure (Ec)	7.4 mJ/cm ²	
Penetration Depth (Dp)	5.1 mils	

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