

Proto3000 Accura® 60 Plastic Stereolithography (SLA) Prototyping Polymer

Category : Polymer , Rapid Prototyping Polymer

Material Notes:

Features:Durable and stiffHigh clarityFast build speedLow viscosity formulationHumidity resistant partsFully developed and tested build styles
Benefits:Achieve the look and feel of polycarbonateView internal features and passagesIncrease system throughputMinimize part cleaning and finishingRealize extended part lifeMaximize reliability with no user R&D
Applications:Tough functional prototypesAutomotive design componentsConsumer electronics (cell phones etc.)Medical instruments, devices and labwareLighting components (lenses etc.)Fluid flow and visualization modelsMaster patterns for urethane castingsQuickCast™ patterns for investment castingTransparent assembliesClear display models Concept and marketing modelsInformation provided by Proto3000 for their prototyping engineering services.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Proto3000-Accura-60-Plastic-Stereolithography-SLA-Prototyping-Polymer.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	Liquid
	1.21 g/cc	0.0437 lb/in ³	Solid
Viscosity	150 - 180 cP	150 - 180 cP	
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	86	86	
Tensile Strength at Break	58.0 - 68.0 MPa	8410 - 9860 psi	ASTM D638
Elongation at Break	5.0 - 13 %	5.0 - 13 %	ASTM D638
Tensile Modulus	2.69 - 3.10 GPa	390 - 450 ksi	ASTM D638
Flexural Strength	87.0 - 101 MPa	12600 - 14600 psi	ASTM D790
Flexural Modulus	2.70 - 3.00 GPa	392 - 435 ksi	ASTM D790
Izod Impact, Notched	0.150 - 0.250 J/cm	0.281 - 0.468 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	71.0 µm/m-°C	39.4 µin/in-°F	T<Tg; ASTM E831-93
	@Temperature 0.000 - 40.0 °C	@Temperature 32.0 - 104 °F	
	153 µm/m-°C	85.0 µin/in-°F	T>Tg; ASTM E831-93
	@Temperature 75.0 -	@Temperature 167 -	

Thermal Properties	140 °C Metric	284 °F English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	53.0 - 55.0 °C	127 - 131 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	48.0 - 50.0 °C	118 - 122 °F	ASTM D648
Glass Transition Temp, Tg	58.0 °C	136 °F	DMA, E"

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Descriptive Properties	Value	Comments
Appearance	Clear	
Critical Exposure (Ec)	7.6 mJ/cm ²	
Penetration Depth (Dp)	6.3 mils	

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