

Proto3000 Accura® 50 Plastic Stereolithography (SLA) Prototyping Polymer

Category : Polymer , Rapid Prototyping Polymer

Material Notes:

Simulate the properties and appearance of molded ABS with this durable, accurate and versatile plastic. Features: Durable and stiff Outstanding accuracy w/out shrinkage related distortion Choice of grey or natural colors Fully developed and tested build styles Benefits: Produce ABS like parts without machining or molding Color selection produces parts that have the appearance of molded plastic Rigidity holds shape on thin walls, but flexes for snap fit assemblies Produces parts that meet tolerances Produces parts that are faithful to the CAD Maximize reliability with no user R&D Applications: Functional components for assemblies, mock-ups and test for many uses, including: - Enclosures, covers and cases for consumer goods- Toys- Cellular/mobile telephones- Electronic components: connectors, interconnects, routing enclosures, etc. - Automotive design elements: dash boards, air conditioning vents, etc. Accurate, durable master patterns for RTV or silicone molding Limited snap-fits and assemblies Simulate a molded part Concept models Marketing models Information provided by Proto3000 for their prototyping engineering services.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Proto3000-Accura-50-Plastic-Stereolithography-SLA-Prototyping-Polymer.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	Liquid
	1.21 g/cc	0.0437 lb/in ³	Solid
Viscosity	600 cP	600 cP	
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	86	86	
Tensile Strength at Break	48.0 - 50.0 MPa	6960 - 7250 psi	ASTM D638
Elongation at Break	5.3 - 15 %	5.3 - 15 %	ASTM D638
Tensile Modulus	2.48 - 2.69 GPa	360 - 390 ksi	ASTM D638
Flexural Strength	72.0 - 77.0 MPa	10400 - 11200 psi	ASTM D790
Flexural Modulus	2.21 - 2.34 GPa	321 - 339 ksi	ASTM D790
Izod Impact, Notched	0.165 - 0.281 J/cm	0.309 - 0.526 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	0.730 μm/m-°C	0.406 μin/in-°F	T<Tg; ASTM E831-93
	@Temperature 0.000 - 20.0 °C	@Temperature 32.0 - 68.0 °F	

Thermal Properties	1.64 $\mu\text{m}/\text{m}\cdot\text{°C}$ Metric	0.911 $\mu\text{m}/\text{in}\cdot\text{°F}$ English	Comments T>Tg; ASTM E831-93
	@Temperature 90.0 - 150 °C	@Temperature 194 - 302 °F	
Deflection Temperature at 0.46 MPa (66 psi)	49.0 - 53.0 °C	120 - 127 °F	ASTM D648
	74.0 - 80.0 °C	165 - 176 °F	with 160°C Thermal Postcure; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	43.0 - 46.0 °C	109 - 115 °F	ASTM D648
Glass Transition Temp, Tg	62.0 °C	144 °F	DMA, E"

Descriptive Properties	Value	Comments
Appearance	Opaque natural or opaque grey	
Critical Exposure (Ec)	9.0 mJ/cm ²	
Penetration Depth (Dp)	4.5 mils	

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