

Proto3000 Accura® 55 Plastic Stereolithography (SLA) Prototyping Polymer

Category : Polymer , Rapid Prototyping Polymer

Material Notes:

Simulate the look and feel of molded ABS with this tough and versatile plastic. Features: Durable and rigid material Look and feel of molded ABS High accuracy with less distortion High production speed Low viscosity formulation Fully developed and tested build styles Benefits: Produce ABS-like parts without molding or machining Increase market opportunities and acceptance for models Parts produced within tolerance and faithful to CAD data Increase system throughput Minimize part cleaning and finishing labor Maximize reliability with no user R&D Applications Automotive interior components Short-run production parts Electronic components Testing of functional assemblies Rigid and durable functional prototypes Concept and marketing models Accurate, durable master patterns for urethane casting Information provided by Proto3000 for their prototyping engineering services.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Proto3000-Accura-55-Plastic-Stereolithography-SLA-Prototyping-Polymer.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	Liquid
	1.20 g/cc	0.0434 lb/in ³	Solid
Viscosity	155 - 185 cP	155 - 185 cP	
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	
Tensile Strength at Break	63.0 - 68.0 MPa	9140 - 9860 psi	ASTM D638
Elongation at Break	5.0 - 8.0 %	5.0 - 8.0 %	ASTM D638
Tensile Modulus	3.20 - 3.38 GPa	464 - 490 ksi	ASTM D638
Flexural Strength	88.0 - 110 MPa	12800 - 16000 psi	ASTM D790
Flexural Modulus	2.69 - 3.24 GPa	390 - 470 ksi	ASTM D790
Izod Impact, Notched	0.120 - 0.220 J/cm	0.225 - 0.412 ft-lb/in	ASTM D256
Gardner Impact	1.10 J	0.811 ft-lb	ASTM D5420

Thermal Properties	Metric	English	Comments
CTE, linear	61.0 µm/m-°C	33.9 µin/in-°F	
	@Temperature 0.000 - 40.0 °C	@Temperature 32.0 - 104 °F	T<Tg; ASTM E831-93
	163 µm/m-°C	90.6 µin/in-°F	

Thermal Properties	Metric @ Temperature 75.0 - 140 °C	English @ Temperature 167 - 284 °F	T-Tp: ASTM E831-93 Comments
Deflection Temperature at 0.46 MPa (66 psi)	55.0 - 58.0 °C	131 - 136 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	51.0 - 53.0 °C	124 - 127 °F	ASTM D648
Glass Transition Temp, Tg	56.0 °C	133 °F	DMA, E"

Descriptive Properties	Value	Comments
Appearance	White	
Critical Exposure (Ec)	7.4 mJ/cm ²	
Penetration Depth (Dp)	5.2 mils	

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