

Proto3000 Accura® 25 Plastic Stereolithography (SLA) Prototyping Polymer

Category : Polymer , Rapid Prototyping Polymer

Material Notes:

Description: A high stiffness engineered nanocomposite that opens new applications for stereolithography users. Features: Look and feel of molded polypropylene Outstanding feature resolution and accuracy High flexibility with excellent shape retention High production speed Fully developed and tested build styles Benefits: Increased market opportunities for model Reliable and robust functional prototypes Suitable for master patterns More parts and better system utilization Maximize reliability with no user R&D Applications: Functional components for assemblies and mock-ups for: - Automotive styling parts – trim, fascia, and other components - Consumer electronic components - Toys - Snap fit assemblies Master patterns for RTV/silicone molding Replace CNC machining of polypropylene to produce short-run plastic parts Simulate injection molded parts Concept and 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-25-Plastic-Stereolithography-SLA-Prototyping-Polymer.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	Liquid
	1.19 g/cc	0.0430 lb/in ³	Solid
Viscosity	250 cP	250 cP	
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	
Tensile Strength at Break	38.0 MPa	5510 psi	ASTM D638
Elongation at Break	13 - 20 %	13 - 20 %	ASTM D638
Tensile Modulus	1.59 - 1.66 GPa	231 - 241 ksi	ASTM D638
Flexural Strength	55.0 - 58.0 MPa	7980 - 8410 psi	ASTM D790
Flexural Modulus	1.38 - 1.66 GPa	200 - 241 ksi	ASTM D790
Izod Impact, Notched	0.190 - 0.240 J/cm	0.356 - 0.450 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	107 µm/m-°C	59.4 µin/in-°F	T<Tg; ASTM E831-93
	@Temperature 0.000 - 20.0 °C	@Temperature 32.0 - 68.0 °F	
	151 µm/m-°C	83.9 µin/in-°F	

Thermal Properties	Metric @ Temperature 90.0 - 150 °C	English @ Temperature 194 - 302 °F	T _g : ASTM E831-93 Comments
Deflection Temperature at 0.46 MPa (66 psi)	58.0 - 63.0 °C	136 - 145 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	51.0 - 55.0 °C	124 - 131 °F	ASTM D648
Glass Transition Temp, T _g	60.0 °C	140 °F	DMA, E"

Descriptive Properties	Value	Comments
Appearance	White	
Critical Exposure (Ec)	10.5 mJ/cm ²	
Penetration Depth (Dp)	4.2 mils	

Contact Songhan Plastic Technology Co.,Ltd.

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