Proto3000 Accura® Bluestone™ 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:Exceptional stiffnessHigh temperature resistanceExcellent accuracyHigh humidity resistanceNon-settling formulationFully developed and tested build stylesBenefits:Bluestone parts resist deformation even under heavy loadsResists temperatures up to 250 °C, making it suitable for tooling or other demanding applicationsPart retain their properties over timeNo expensive mixing equipment requiredConsistent mechanical properties, even on long buildsImproves/enhance demanding applications: windtunnel, soft tooling, injection mold toolingMaximize reliability with no user R&DApplications: Wind-tunnel testing for the motorsports and aerospace industriesProduction of CMM/inspection and assembly jigs and fixturesLighting design and other applications where heat-generation from electrical components may be a factorCovers and enclosures of electrical and mechanical componentsWater-handling products, such as pump and impeller design or other componentsAutomotive "under-the-hood" applicationsHousings and enclosures that require high stiffness and rigidity, such as those for business machinesElectronic applications, such as insulating components, connectors, adaptor fittings, bases, sockets, and areas where ceramics might be usedInformation provided by Proto3000 for their protoyping engineering services.

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

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in³	Liquid
	1.78 g/cc	0.0643 lb/in³	Solid
Viscosity	1200 - 1800 cP @Temperature 30.0 °C	1200 - 1800 cP @Temperature 86.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	92	92	
Tensile Strength at Break	66.0 - 68.0 MPa	9570 - 9860 psi	ASTM D638
Elongation at Break	1.4 - 2.4 %	1.4 - 2.4 %	ASTM D638
Tensile Modulus	7.60 - 11.7 GPa	1100 - 1700 ksi	ASTM D638
Flexural Strength	124 - 154 MPa	18000 - 22300 psi	ASTM D790
Flexural Modulus	8.30 - 9.80 GPa	1200 - 1420 ksi	ASTM D790
Izod Impact, Notched	0.130 - 0.170 J/cm	0.244 - 0.318 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	33.0 - 44.0 µm/m-°C	18.3 - 24.4 µin/in-°F	T<Tg; ASTM E831-93

Thermal Properties	Metric	English	Comments
	@Temperature 0.000 - 20.0 °C	@Temperature 32.0 - 68.0 °F	
	81.0 - 98.0 µm/m-°C @Temperature 90.0 - 150 °C	45.0 - 54.4 µin/in-°F @Temperature 194 - 302 °F	T>Tg; ASTM E831-93
Deflection Temperature at 0.46 MPa (66 psi)	65.0 - 66.0 °C	149 - 151 °F	ASTM D648
	267 - 284 °C	513 - 543 °F	with 120°C Thermal Postcure; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	ASTM D648
Glass Transition Temp, Tg	71.0 - 83.0 °C	160 - 181 °F	DMA, E"

Descriptive Properties	Value	Comments
Appearance	Opaque Blue	
Critical Exposure (Ec)	6.9 mJ/cm^2	
Penetration Depth (Dp)	4.1 mils	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China