Accura® Bluestone™

Unspecified

3D Systems

Message:

Applications Wind-tunnel testing for the motorsports and aerospace industries Production of CMM/inspection and assembly jigs and fixtures Lighting design and other applications where heat-generation from electrical components may be a factor Covers and enclosures of electrical and mechanical components Water-handling products, such as pump and impeller design or other components Automotive "under-the-hood" applications Housings and enclosures that require high stiffness and rigidity, such as those for business machines Electronic applications, such as insulating components, connectors, adaptor fittings, bases, sockets, and areas where ceramics might be used Features Exceptional stiffness High temperature resistance Excellent accuracy High humidity resistance Non-settling formulation Fully developed and tested build styles **Benefits** Bluestone parts resist deformation even under heavy loads Resists temperatures up to 250 °C, making it suitable for tooling or other demanding applications Part retain their properties over time No expensive mixing equipment required Consistent mechanical properties, even on long builds Improves/enhance demanding applications: windtunnel, soft tooling, injection mold tooling

Maximize reliability with no user R&D

General Information	
Features	Good Dimensional Stability
	Good Stiffness
	High Heat Resistance
	High Rigidity
	Humidity Resistant
Uses	Aerospace Applications
	Automotive Applications
	Automotive Under the Hood
	Connectors
	Electrical Parts
	Electrical/Electronic Applications
	Fittings
	Housings
	Lighting Fixtures
	Sporting Goods

Opaque

Forms	Liquid		
Processing Method	3D Printing, Stereolithography		
Physical	Nominal Value	Unit	
Density			
1	1.70	g/cm³	
2	1.78	g/cm³	
Viscosity (30°C)	1.20 to 1.80	Pa·s	
Critical Exposure	6.90	mJ/cm ²	
Penetration Depth	104.1	μm	
Hardness	Nominal Value	Unit	
Durometer Hardness (Shore D)	92		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7600 to 11700	MPa	ASTM D638
Tensile Strength	66.0 to 68.0	MPa	ASTM D638
Tensile Elongation (Break)	1.4 to 2.4	%	ASTM D638
Flexural Modulus	8300 to 9800	MPa	ASTM D790
Flexural Strength	124 to 154	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	13 to 17	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed ³	267 to 284	°C	
0.45 MPa, Unannealed ⁴	65.0 to 66.0	°C	
1.8 MPa, Unannealed ⁵	65.0	°C	
Glass Transition Temperature	71.0 to 83.0	°C	DMA
CLTE - Flow			ASTM E831
0 to 20°C	3.3E-5 to 4.4E-5	cm/cm/°C	
90 to 150°C	8.1E-5 to 9.8E-5	cm/cm/°C	
NOTE			
1.	Liquid, 25°C		
2.	Solid, 25°C		
3.	UV + Thermal Postcure (120°C)		
4.	UV Postcure Only		
5.	UV Postcure Only		

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