Accura® CeraMAX™

Unspecified

3D Systems

Message:

A rigid ceramic-reinforced composite with excellent thermal, moisture and abrasion resistance.

Applications

Heat and wear resistant components

Stiff/Rigid assemblies and prototypes

Composite Ceramic-like components

Aesthetic components for art and archival models

Moisture stable components

Automotive and aerospace applications

Features

A plastic-ceramic composite

High thermal resistance

Excellent abrasion resistance

Moisture resistant

Extremely rigid

Benefits

Aesthetically beautiful white parts

Withstand temperatures of up to 220°C

Models that can withstand wear in aggressive applications

Components can survive in adverse thermal environments

Components can be plated

Parts retain properties & dimensions for extended durations

General Information	
Features	Good Abrasion Resistance
	Good Dimensional Stability
	Good Stiffness
	Good Wear Resistance
	High Heat Resistance
	High Rigidity
	Moisture Resistant
	Platable
	Pleasing Surface Appearance
Uses	Aerospace Applications
	Automotive Applications
	Engineering Parts
	Modeling Material
	Prototyping
Appearance	Opaque
	White
Processing Method	3D Printing, Stereolithography

Physical	Nominal Value	Unit	
Density			
1	1.59	g/cm³	
2	1.62	g/cm³	
Viscosity (30°C)	1.50 to 2.00	Pa·s	
Critical Exposure	7.20	mJ/cm²	
Penetration Depth	144.8	μm	
Hardness	Nominal Value	Unit	
Durometer Hardness (Shore D)	89		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9460 to 9680	MPa	ASTM D638
Tensile Strength	78.0 to 87.0	MPa	ASTM D638
Tensile Elongation (Break)	1.0 to 1.5	%	ASTM D638
Flexural Modulus	8270 to 8370	MPa	ASTM D790
Flexural Strength	137 to 145	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	15 to 18	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load	ASTM D648		
0.45 MPa, Unannealed ³	220	°C	
0.45 MPa, Unannealed	148	°C	
1.8 MPa, Unannealed ⁴	97.0	°C	
1.8 MPa, Unannealed	95.0	°C	
Glass Transition Temperature			DMA
	108 to 110	°C	
5	112 to 114	°C	
CLTE - Flow			ASTM E831
25 to 57°C	3.1E-5	cm/cm/°C	
70 to 200°C	8.7E-5	cm/cm/°C	
NOTE			
1.	Liquid, 25°C		
2.	Solid, 25°C		
3.	Thermal Postcure 2 hr @ 120 °C		
4.	Thermal Postcure 2 hr @ 120 °C		
5.	Thermal Postcure @ 120 °C		

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