

# Accura® Sapphire

Unspecified

3D Systems

## Message:

An accurate print material for jewelry and fine featured pattern production

Applications

Jewelry manufacturing

Direct casting

Master pattern production

Models requiring high detail

Features

Outstanding accuracy

0.025mm layer thickness capability

Low ash formulation

Benefits

Fine features are faithfully reproduced

Easy feature visualization

Material can be burned out for direct casting

General Information			
Features	Good Surface Finish		
Uses	Jewelry		
	Modeling Material		
	Mold Making		
	Molds/Dies/Tools		
	Patterns		
Appearance	Blue		
Forms	Liquid		
Processing Method	3D Printing, Stereolithography		
Physical	Nominal Value	Unit	
Density			
-- 1	1.10	g/cm <sup>3</sup>	
-- 2	1.18	g/cm <sup>3</sup>	
Viscosity (30°C)	160 to 200	mPa · s	
Critical Exposure	8.23	mJ/cm <sup>2</sup>	
Penetration Depth	73.7	µm	
Hardness	Nominal Value	Unit	
Durometer Hardness (Shore D)	72		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	910 to 1110	MPa	ASTM D638
Tensile Strength	20.0 to 24.0	MPa	ASTM D638
Tensile Elongation (Break)	9.0 to 16	%	ASTM D638
Flexural Modulus	1080 to 1420	MPa	ASTM D790

Flexural Strength	28.0 to 38.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	29 to 40	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	38.0	°C	
1.8 MPa, Unannealed	33.0	°C	
Glass Transition Temperature	58.0	°C	DSC
CLTE - Flow			ASTM E831
25 to 50°C	1.4E-4	cm/cm/°C	
75 to 140°C	1.7E-4	cm/cm/°C	
NOTE			
1.	Liquid, 25°C		
2.	Solid, 25°C		

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#### Recommended distributors for this material

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