

Accura® Amethyst™

Epoxy; Epoxide

3D Systems

Message:

Optimized for the rapid and automated production of patterns and master molds for jewelry manufacturing.

Applications

Patterns for use with low and high vulcanizing rubber molding

High resolution concept models

Features

Outstanding accuracy

Exceptional detail

High thermal resistance

Deep purple color

Low ash formulation

Benefits

Parts are accurately produced in X, Y and Z

Small details are faithfully reproduced

Patterns are compatible with high temperature rubber molding operations

Produces parts in a high contract color for easy identification

Material can be burned out for direct casting

General Information			
Features	Good Surface Finish		
	High Heat Resistance		
Uses	Jewelry		
	Mold Making		
	Molds/Dies/Tools		
	Prototyping		
Appearance	Purple		
Forms	Liquid		
Processing Method	3D Printing, Stereolithography		
Physical	Nominal Value	Unit	
Density			
-- 1	1.10	g/cm ³	
-- 2	1.23	g/cm ³	
Viscosity (30°C)	350	mPa · s	
Critical Exposure	14.4	mJ/cm ²	
Penetration Depth	94.0	µm	
Hardness	Nominal Value	Unit	
Durometer Hardness (Shore D)	87		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3510 to 4000	MPa	ASTM D638
Tensile Strength	22.0 to 38.0	MPa	ASTM D638

Tensile Elongation (Break)	0.56 to 1.0	%	ASTM D638
Flexural Modulus	3650 to 3720	MPa	ASTM D790
Flexural Strength	87.0 to 125	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	9.0 to 12	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	77.0	°C	
1.8 MPa, Unannealed	62.0	°C	
Glass Transition Temperature	103	°C	DMA
CLTE - Flow			ASTM E831
0 to 20°C	5.7E-5	cm/cm/°C	
90 to 150°C	1.3E-4	cm/cm/°C	
NOTE			
1.	Liquid, 25°C		
2.	Solid, 25°C		

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