Accura® 48HTR

Epoxy; Epoxide

3D Systems

Message:

Applications
Automotive Testing
Under the hood
Fluid flow and visualization
Intake manifold design analysis and verification
Coolant flow analysis
Heating Air duct models
Transmission fluid flow analysis
Electronic controls prototypes
Aerospace wind tunnel models
High rigidity models
Long lived prototypes
Features
Temperature reistant to 130°C (266°F)
High humidity and moisture resistance
High rigidity
Low viscosity formulation
Benefits
Suitable for high temperature testing
Stable mechanical properties over time
Parts maintain modulus in humid environments
Extended part life
Parts are strong and maintain shape
Fast recoating and cleaning

General Information			
Features	High Heat Resistance High Rigidity Humidity Resistant Low Viscosity Moisture Resistant		
Uses	Aerospace Applications Automotive Applications Automotive Under the Hood Electrical/Electronic Applications Modeling Material Prototyping		
Appearance	Clear Amber		
Processing Method	3D Printing, Stereolithography		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density			
-- [1]	1.17	g/cm³	

-- [2]	1.23	g/cm³	
Viscosity (30°C)	200 to 250	mPa·s	
Critical Exposure	7.40	mJ/cm²	
Penetration Depth	139.7	µm	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	86		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2800 to 3980	MPa	ASTM D638
Tensile Strength	64.0 to 67.0	MPa	ASTM D638
Tensile Elongation (Break)	4.0 to 7.0	%	ASTM D638
Flexural Modulus	2760 to 3400	MPa	ASTM D790
Flexural Strength	105 to 118	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	22 to 29	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed [3]	130	°C	
0.45 MPa, Unannealed [4]	65.0	°C	
1.8 MPa, Unannealed [5]	110	°C	
1.8 MPa, Unannealed [6]	57.0	°C	
Glass Transition Temperature			ASTM D4065
--	62.0	°C	
-- [7]	132	°C	
CLTE - Flow			ASTM E831
< 50°C	1.2E-4	cm/cm/°C	
> 120°C	1.7E-4	cm/cm/°C	

NOTE	
1.	Liquid, 25°C
2.	Solid, 25°C
3.	UV + Thermal Postcure (2 hr @ 160 °C)
4.	UV Postcure Only
5.	UV + Thermal Postcure (2 hr @ 160 °C)
6.	UV Postcure Only
7.	UV + Thermal Postcure (2 hr @ 160 °C)

Recommended distributors for this material

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