Accura® Peak™

Epoxy; Epoxide

3D Systems

Message:

A hard, accurate plastic with excellent moisture and temperature stability.
Applications
High temperature requirements
Test of water and fluid handling components
Wind tunnel models
Master patterns
Fixtures, gages and jigs
Features
High stiffness
Excellent accuracy
Best in class moisture stability
Elevated temperature resistance
Benefits
Stable and rigid parts that withstand adverse environments
Outstanding stiffness for demanding applications
Ideal for parts requiring high thermal and moisture resistance

General Information		
Features	Good Weather Resistance	
	High Hardness	
	High Heat Resistance	
	High Rigidity	
	High Stiffness	
	Moisture Resistant	
Uses	Engineering Parts	
	Modeling Material	
	Patterns	
	Prototyping	
Appearance	Amber	
Forms	Liquid	
Processing Method	3D Printing, Stereolithography	
Physical	**Nominal Value**	**Unit**
Density		
-- [1]	1.32	g/cm³
-- [2]	1.36	g/cm³
Viscosity (30°C)	605	mPa·s
Critical Exposure	11.5	mJ/cm²
Penetration Depth	142.2	µm
Hardness	**Nominal Value**	**Unit**

Durometer Hardness (Shore D)	86		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4220 to 4790	MPa	ASTM D638
Tensile Strength	57.0 to 78.0	MPa	ASTM D638
Tensile Elongation (Break)	1.3 to 2.5	%	ASTM D638
Flexural Modulus	4180 to 4790	MPa	ASTM D790
Flexural Strength	77.0 to 126	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	21 to 27	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed [3]	153	°C	
0.45 MPa, Unannealed	78.0	°C	
1.8 MPa, Unannealed [4]	124	°C	
1.8 MPa, Unannealed	59.0	°C	
Glass Transition Temperature			DMA
--	104	°C	
-- [5]	110	°C	
CLTE - Flow			ASTM E831
0 to 50°C	4.8E-5	cm/cm/°C	
50 to 120°C	9.2E-5	cm/cm/°C	

NOTE	
1.	Liquid, 25°C
2.	Solid, 25°C
3.	Thermal Postcure @ 120 °C
4.	Thermal Postcure @ 120 °C
5.	Thermal Postcure @ 120 °C

Recommended distributors for this material

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