Accura® 55

Unspecified

3D Systems

Message:

Applications
Automotive interior components
Short-run production parts
Electronic components
Testing of functional assemblies
Rigid and durable functional proto types
Concept and marketing models
Accurate, durable master patterns for urethane casting
Features
Durable and rigid material
Look and feel of molded ABS
High accuracy with less distortion
High production speed
Low viscosity formulation
Fully developed and tested build styles
Benefits
Produce ABS-like parts without molding or machining
Increase market opportunities and acceptance for models
Parts produced within tolerance and faithful to CAD data
Increase system throughput
Minimize part cleaning and finishing labor
Maximize reliability with no user R&D

General Information	
Features	Durable Good Dimensional Stability High Rigidity Low Viscosity
Uses	Automotive Interior Parts Electrical/Electronic Applications Modeling Material Molds/Dies/Tools Prototyping
Appearance	White
Forms	Liquid
Processing Method	3D Printing, Stereolithography

Physical	Nominal Value	Unit
Density		
-- [1]	1.13	g/cm³
-- [2]	1.20	g/cm³
Viscosity (30°C)	155 to 185	mPa·s

Critical Exposure	7.40	mJ/cm²	
Penetration Depth	132.1	µm	
Hardness	**Nominal Value**	**Unit**	
Durometer Hardness (Shore D)	85		
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3200 to 3380	MPa	ASTM D638
Tensile Strength	63.0 to 68.0	MPa	ASTM D638
Tensile Elongation (Break)	5.0 to 8.0	%	ASTM D638
Flexural Modulus	2690 to 3240	MPa	ASTM D790
Flexural Strength	88.0 to 110	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	12 to 22	J/m	ASTM D256
Gardner Impact	1.10	J	ASTM D5420
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	55.0 to 58.0	°C	
1.8 MPa, Unannealed	51.0 to 53.0	°C	
Glass Transition Temperature	56.0	°C	DMA
CLTE - Flow			ASTM E831
0 to 40°C	6.1E-5	cm/cm/°C	
75 to 140°C	1.6E-4	cm/cm/°C	
NOTE			
1.	Liquid, 25°C		
2.	Solid, 25°C		

Recommended distributors for this material

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