

Accura® ClearVue™

Unspecified

3D Systems

Message:

- Applications
- General purpose prototyping
 - Models requiring high clarity
 - Headlamps and lenses
 - Fluid flow and visualization models
 - Transparent assemblies
 - Snapfits and complex assemblies
 - Medical models and medical devices
- Benefits
- The highest clarity and transparency
 - Durable and strong
 - Humidity and moisture stable
 - USP Class VI capable

General Information			
Features	Durable		
	High Clarity		
	High Strength		
	Humidity Resistant		
	Moisture Resistant		
Uses	Lenses		
	Lighting Fixtures		
	Medical/Healthcare Applications		
	Modeling Material		
	Molds/Dies/Tools		
	Optical Applications		
	Prototyping		
Agency Ratings	USP Class VI		
Appearance	Clear/Transparent		
Forms	Liquid		
Processing Method	3D Printing, Stereolithography		
Physical	Nominal Value	Unit	Test Method
Density			
-- 1	1.10	g/cm ³	ASTM D570
-- 2	1.17	g/cm ³	
Water Absorption (Equilibrium)	0.30	%	ASTM D570
Viscosity (30°C)	235 to 260	mPa · s	
Critical Exposure	9.50	mJ/cm ²	

Penetration Depth	154.9	μm	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	80		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2270 to 2640	MPa	ASTM D638
Tensile Strength	46.0 to 53.0	MPa	ASTM D638
Tensile Elongation (Break)	3.0 to 15	%	ASTM D638
Flexural Modulus	1980 to 2310	MPa	ASTM D790
Flexural Strength	72.0 to 84.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	40 to 58	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	51.0	°C	
1.8 MPa, Unannealed	50.0	°C	
Glass Transition Temperature	62.0	°C	DMA
CLTE - Flow			ASTM E831
25 to 50°C	1.2E-4	cm/cm/°C	
50 to 100°C	1.6E-4	cm/cm/°C	
NOTE			
1.	Liquid, 25°C		
2.	Solid, 25°C		

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