

Accura® ClearVue™ Free (SL 7870)

Epoxy; Epoxide

3D Systems

Message:

Tough, durable and ultra clear SLA resin

Accura ClearVue Free is a clear, low viscosity stereolithography resin with excellent accuracy. It offers a large working envelope of physical properties, as well as a unique combination of high elongation and impact strength which allows the building of durable parts.

Features

Clear and transparent

Rigid and tough

Great for headlamps, bottles and transparent assemblies

Excellent humidity/moisture resistance

Benefits

Supplies clear, components with outstanding clarity and excellent accuracy

Less part finishing time with ease of postcuring

Higher quality casting masters for the investment casting parts

General Information		
Features	Durable	
	Good Toughness	
	High Clarity	
	High Elongation	
	High Impact Resistance	
	High Rigidity	
	Humidity Resistant	
	Low Viscosity	
	Moisture Resistant	
Uses	Bottles	
	Engineering Parts	
	Lighting Applications	
	Mold Making	
	Molds/Dies/Tools	
	Prototyping	
	Transparent or Translucent Parts	
Appearance	Clear/Transparent	
Forms	Liquid	
Processing Method	3D Printing, Stereolithography	
Physical	Nominal Value	Unit
Density		
-- ¹	1.13	g/cm³
-- ²	1.15	g/cm³
Viscosity (30°C)	180	mPa·s

Critical Exposure	10.6	mJ/cm ²	
Penetration Depth	182.9	μm	
Hardness	Nominal Value	Unit	
Durometer Hardness (Shore D)	86		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1940 to 2250	MPa	ASTM D638
Tensile Strength	38.0 to 42.0	MPa	ASTM D638
Tensile Elongation (Break)	10 to 22	%	ASTM D638
Flexural Modulus	1940 to 2250	MPa	ASTM D790
Flexural Strength	73.0 to 76.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact	23 to 51	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	48.0	°C	
1.8 MPa, Unannealed	41.0	°C	
Glass Transition Temperature	56.0	°C	DMA
CLTE - Flow			ASTM E831
25 to 50°C	9.7E-5	cm/cm/°C	
50 to 100°C	2.2E-4	cm/cm/°C	
NOTE			
1.	Liquid, 28°C		
2.	Solid, 25°C		

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