

Accura® CastPro™ Free (SL 7800)

Unspecified

3D Systems

Message:

Accurate and durable general purpose SL resin. Stable material for casting patterns free of heavy metals using QuickCast™ technology.

Features

Produce accurate QuickCast™ patterns

Excellent humidity/moisture resistance

Free of antimony for cleaner burnout

Benefits

Users can build accurate and tough parts that retain dimensions and impact resistance over time without switching vat for different applications

Less part finishing time with ease of post-curing

Higher quality casting masters for the investment casting parts

General Information			
Features	Durable		
	Good Dimensional Stability		
	Good Impact Resistance		
	Good Toughness		
	Humidity Resistant		
	Moisture Resistant		
Uses	Engineering Parts		
	General Purpose		
	Mold Making		
	Molds/Dies/Tools		
	Patterns		
	Prototyping		
Appearance	Clear Amber		
Processing Method	3D Printing, Stereolithography		
Physical	Nominal Value	Unit	
Density			
-- 1	1.12	g/cm³	
-- 2	1.15	g/cm³	
Viscosity (30°C)	205	mPa·s	
Critical Exposure	9.98	mJ/cm²	
Penetration Depth	145.8	µm	
Hardness	Nominal Value	Unit	
Durometer Hardness (Shore D)	87		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1940 to 2350	MPa	ASTM D638
Tensile Strength	45.0 to 48.0	MPa	ASTM D638

Tensile Elongation (Break)	9.0 to 19	%	ASTM D638
Flexural Modulus	2200 to 2480	MPa	ASTM D790
Flexural Strength	81.0 to 83.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact	35 to 50	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	62.0	°C	ASTM D648
Glass Transition Temperature	57.0	°C	DMA
CLTE - Flow (25 to 50°C)	1.0E-4	cm/cm/°C	ASTM E831
NOTE			
1.	Liquid, 25°C		
2.	Solid, 25°C		

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