

Accura® CastPro™

Unspecified

3D Systems

Message:

- Applications
 - Foundry applications
 - Produce QuickCast™ patterns
 - Production investment castings
 - Prototype investment castings
- Compatible with most metals
- Prototype metal parts
- Low to medium production runs without tooling
- Titanium castings
- Aluminum, magnesium and zinc castings
- Ferrous castings
- Features
 - Low viscosity
 - Humidity and moisture stable
 - Improved thermal expansion characteristics
- Fast photospeed
- Benefits
 - Excellent drainage of thin walls
 - Dimensionally stable patterns
 - Higher accuracy patterns
 - Improved burnout
 - High casting yields

General Information			
Features	Good Dimensional Stability		
	Humidity Resistant		
	Low Viscosity		
	Moisture Resistant		
Uses	Engineering Parts		
	Mold Making		
	Molds/Dies/Tools		
	Patterns		
	Prototyping		
	Thin-walled Parts		
Appearance	Clear/Transparent		
	Transparent - Slight Yellow		
	Yellow		
Forms	Liquid		
Processing Method	3D Printing, Stereolithography		
Physical	Nominal Value	Unit	Test Method

Density			
-- ¹	1.08	g/cm ³	
-- ²	1.17	g/cm ³	
Water Absorption (Equilibrium)	0.33	%	ASTM D570
Viscosity (30°C)	240 to 260	mPa·s	
Critical Exposure	8.70	mJ/cm ²	
Penetration Depth	157.5	μm	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	85		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2490 to 2620	MPa	ASTM D638
Tensile Strength	52.0 to 53.0	MPa	ASTM D638
Tensile Elongation (Break)	4.1 to 8.3	%	ASTM D638
Flexural Modulus	2310 to 2340	MPa	ASTM D790
Flexural Strength	82.0 to 84.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	43 to 50	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	70.0	°C	DMA
CLTE - Flow			ASTM E831
0 to 40°C	1.0E-4	cm/cm/°C	
50 to 140°C	1.6E-4	cm/cm/°C	
NOTE			
1.	Liquid, 25°C		
2.	Solid, 25°C		

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