Crystal Clear® 221

Polyurethane

Smooth-On, Inc

Message:

Crystal Clear® 220 & 221 are water white clear resins made specifically for applications that require absolute clarity. These are "heat cure" systems and are harder versions of our popular Crystal Clear® Series resins (Shore 85D). Cured castings are UV Resistant (resists yellowing due to ultra-violet light exposure) and are not brittle. Vibrant colors and color effects are achieved by adding pigment dispersions. Applications include encapsulation, making prototype models, lenses, sculpture reproductions, decorative cast pieces, jewelry, special effects and props.

General Information					
Features	Good Color Stability				
	Good Colorability				
	Good UV Resistance				
	High Clarity				
	High Hardness				
Uses	Decorative Parts				
	Jewelry				
	Lenses				
	Modeling Material				
Appearance	Clear/Transparent				
Processing Method	Casting				
	Encapsulating				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	1.07	g/cm³	ASTM D1475		
Specific Volume	0.936	cm³/g	ASTM D1475		
Demold Time	Overnight Followed By Post-Cure				
Casting Thickness	Variable	in			
Mixing Ratio	100A:75B by weight				
Molding Shrinkage - Flow	1.7	%	ASTM D2566		
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness (Shore D)	85		ASTM D2240		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus	197	MPa	ASTM D638		
Tensile Strength (Break)	56.5	МРа	ASTM D638		
Tensile Elongation (Break)	12	%	ASTM D638		
Flexural Modulus	2100	МРа	ASTM D790		
Flexural Strength	78.6	МРа	ASTM D790		
Compressive Modulus	600	MPa	ASTM D695		

Compressive Strength	69.6	MPa	ASTM D695	
Thermal	Nominal Value	Unit	Test Method	
Deflection Temperature Under Load (1.8				
MPa, Unannealed)	80.0	°C	ASTM D648	
Thermoset	Nominal Value	Unit	Test Method	
Pot Life	75	min		
Thermoset Mix Viscosity	675	сР	ASTM D2393	

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Recommended distributors for this material

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