

RapidCast™ RC-900

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

RC-900 is a rigid, ABS simulated polyurethane formulated for room temperature meter-mix dispensing systems and short mold cycle times. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA, or TDI.

General Information			
Features	Fast Molding Cycle		
	High Rigidity		
RoHS Compliance	RoHS Compliant		
Appearance	Amber		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Hardener	1.08	g/cm ³	
Cured	1.12	g/cm ³	
Base Resin	1.20	g/cm ³	
Molding Shrinkage - Flow	0.10 to 0.50	%	ASTM D2566
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	2410	MPa	ASTM D790
Flexural Strength	96.5	MPa	ASTM D790
Compressive Modulus	4760	MPa	ASTM D695
Compressive Strength	75.8	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	43	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	96.0	°C	
1.8 MPa, Unannealed	88.0	°C	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Mix Ratio by Volume: 100			
Hardener	Mix Ratio by Weight: 90		

Mix Ratio by Weight: 100

Resin	Mix Ratio by Volume: 100		
Demold Time	10 to 15	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
25°C ¹	0.10	Pa·s	
25°C ²	0.43	Pa·s	
25°C ³	0.85	Pa·s	
Curing Time (25°C)	1.7E+2	hr	
Gel Time	1.2 to 1.5	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	80 to 90		ASTM D2240
Tensile Strength	55.2	MPa	ASTM D638
Tensile Elongation at Break	3.0	%	ASTM D638
NOTE			
1.	Resin		
2.	Mixed		
3.	Hardener		

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