

RapidCast™ RC-210

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

RC-210 is a tough, impact resistant elastomer formulated for meter mix dispensing methods. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA or TDI.

General Information			
Features	Good Toughness		
	High Impact Resistance		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Cured	1.05	g/cm ³	
Hardener	1.07	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	1140	MPa	ASTM D790
Flexural Strength	51.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	140	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	65.0	°C	ASTM D648
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 100		
Hardener	Mix Ratio by Weight: 89		
	Mix Ratio by Weight: 100		
Resin	Mix Ratio by Volume: 100		
Demold Time	10 to 20	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			

25°C ¹	0.50	Pa·s	
25°C ²	0.90	Pa·s	
25°C ³	1.0	Pa·s	
Curing Time ⁴	40	hr	
Gel Time	0.83 to 1.2	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	75 to 85		ASTM D2240
Tensile Modulus	1720	MPa	ASTM D638
Tensile Strength	44.8	MPa	ASTM D638
Tensile Elongation at Break	5.0	%	ASTM D638
NOTE			
1.	Resin		
2.	Mixed		
3.	Hardener		
4.	24 hours at 77°F + 16 hours at 150°F		

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