

RapidCast™ RC-255

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

RC-255 is a tough, impact resistant elastomer formulated meter-mix dispensing systems. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA, or TDI.

General Information			
Features	Good Impact Resistance		
	Good Toughness		
	High Rigidity		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Cured	1.05	g/cm ³	
Hardener	1.05	g/cm ³	
Base Resin	1.26	g/cm ³	
Molding Shrinkage - Flow	0.10 to 0.50	%	ASTM D2566
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	1790	MPa	ASTM D790
Flexural Strength	75.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	115	°C	
1.8 MPa, Unannealed	105	°C	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 100		
Hardener	Mix Ratio by Weight: 84		
	Mix Ratio by Weight: 100		
Resin	Mix Ratio by Volume: 100		

Demold Time	20 to 30	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
25°C ¹	0.15	Pa·s	
25°C ²	1.7	Pa·s	
Curing Time (25°C)	24	hr	
Gel Time	0.83 to 1.2	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	70 to 80		ASTM D2240
Tensile Modulus	1340	MPa	ASTM D638
Tensile Strength	48.3	MPa	ASTM D638
Tensile Elongation at Break	19	%	ASTM D638
NOTE			
1.	Resin		
2.	Hardener		

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