RapidCast™ RC-555

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

RC 555 is a shore D 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			
RoHS Compliance	RoHS Compliant			
Appearance	Black			
Processing Method	Casting			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity				
Hardener	1.10	g/cm³		
Cured	1.14	g/cm³		
Base Resin	1.26	g/cm³		
Molding Shrinkage - Flow	0.10 to 0.50	%	ASTM D2566	
Mechanical	Nominal Value	Unit	Test Method	
Flexural Modulus	1280	MPa	ASTM D790	
Flexural Strength	51.7	MPa	ASTM D790	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact	59	J/m	ASTM D256	
Thermal	Nominal Value	Unit	Test Method	
Deflection Temperature Under Load (1.8				
MPa, Unannealed)	90.0	°C	ASTM D648	
Thermoset	Nominal Value	Unit	Test Method	
Thermoset Components				
	Mix Ratio by Volume: 100			
Hardener	Mix Ratio by Weight: 88			
	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	0.50	Pa·s	
25°C ³	1.2	Pa·s	
Curing Time (25°C)	24	hr	
Gel Time	1.0 to 1.3	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	70 to 80		ASTM D2240
Tensile Strength	32.4	MPa	ASTM D638
Tensile Elongation at Break	9.0	%	ASTM D638
NOTE			
1.	Resin		
2.	Mixed		
3.	Hardener		

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