RapidVac[™] VA-255

Polyurethane Thermoset Elastomer Innovative Polymers, Inc.

Message:

VA-255 is a rigid polyurethane formulated for hand-batch and vacuum cast methods. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA, or TDI. VA-255 has excellent green strength for good demold characteristics.

General Information			
Features	Durable		
	Good Green Strength		
	Good Mold Release		
	High Rigidity		
RoHS Compliance	RoHS Compliant		
Appearance	Off-White		
	White		
Processing Method	Vacuum Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Hardener	1.11	g/cm³	
Cured	1.14	g/cm³	
Base Resin	1.25	g/cm³	
Molding Shrinkage - Flow	0.20 to 0.60	%	ASTM D2566
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	2760	МРа	ASTM D790
Flexural Strength	114	МРа	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	90.0	°C	
1.8 MPa, Unannealed	82.0	°C	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 62		
Hardener	Mix Ratio by Weight: 55		

Resin	Mix Ratio by Volume: 100			
Demold Time	120 to 240	min		
Uncured Properties	Nominal Value	Unit	Test Method	
Viscosity				
25°C ¹	0.20	Pa·s		
25°C ²	0.35	Pa·s		
25°C ³	1.0	Pa·s		
Curing Time ⁴	28	hr		
Gel Time	8.0 to 12	min		
Cured Properties	Nominal Value	Unit	Test Method	
Shore Hardness (Shore D)	75 to 85		ASTM D2240	
Tensile Modulus	1930	MPa	ASTM D638	
Tensile Strength	68.9	MPa	ASTM D638	
Tensile Elongation at Break	8.0	%	ASTM D638	
NOTE				
1.	Resin			
2.	Mixed			
3.	Hardener			
4.	24 hours at 77°F + 4 hours at 150°F			

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