

RapidVac™ VA-270

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

VA-270 is a 70 shore D polyurethane formulated for hand-batch or vacuum casting methods. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA, or TDI.

General Information			
RoHS Compliance	RoHS Compliant		
Appearance	White		
Processing Method	Vacuum Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Hardener	1.05	g/cm ³	
Cured	1.10	g/cm ³	
Base Resin	1.12	g/cm ³	
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D2566
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	1380	MPa	ASTM D790
Flexural Strength	55.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	27	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	80.0	°C	ASTM D648
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 60		
Hardener	Mix Ratio by Weight: 50		
	Mix Ratio by Weight: 100		
Resin	Mix Ratio by Volume: 100		
Demold Time	45 to 75	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
25°C ¹	0.045	Pa · s	
25°C ²	0.20	Pa · s	


25°C ³	0.80	Pa·s	
Curing Time ⁴	1.7E+2	hr	
Gel Time	2.0 to 4.0	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	70 to 76		ASTM D2240
Tensile Strength	44.8	MPa	ASTM D638
Tensile Elongation at Break	5.0	%	ASTM D638
NOTE			
1.	Resin		
2.	Mixed		
3.	Hardener		
4.	7 days at 77°F + 1 hour at 150°F		

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