

# RapidVac™ VA-257

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

VA-257 is a rigid polyurethane formulated for hand-batch or vacuum assisted casting methods. Excellent physical properties can be obtained without the utilization of mercury, MOCA, or TDI. VA-257 meets the standards required to pass UL 94-V0.

General Information			
Features	High Rigidity		
RoHS Compliance	RoHS Compliant		
Appearance	White		
Processing Method	Vacuum Casting		
Physical	Nominal Value	Unit	
Specific Gravity			
Hardener	1.20	g/cm <sup>3</sup>	
Cured	1.25	g/cm <sup>3</sup>	
Base Resin	1.30	g/cm <sup>3</sup>	
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	2070	MPa	ASTM D790
Flexural Strength	75.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	37	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	88.0	°C	
1.8 MPa, Unannealed	80.0	°C	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 54		
Hardener	Mix Ratio by Weight: 50		
	Mix Ratio by Weight: 100		
Resin	Mix Ratio by Volume: 100		
Demold Time	90 to 210	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
38°C <sup>1</sup>	0.55	Pa · s	

38°C <sup>2</sup>	0.95	Pa·s	
38°C <sup>3</sup>	1.0	Pa·s	
Curing Time <sup>4</sup>	40	hr	
Gel Time	5.5 to 8.5	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	75 to 85		ASTM D2240
Tensile Strength	42.7	MPa	ASTM D638
Tensile Elongation at Break	14	%	ASTM D638
NOTE			
1.	Hardener		
2.	Resin		
3.	Mixed		
4.	24 hours at 77°F + 16 hours at 180°F		

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