

RapidVac™ VA-274

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

VA-274 is a water clear, rigid polyurethane formulated for room temperature hand-batch or vacuum assisted casting methods. Excellent physical properties can be obtained without the utilization of mercury, MOCA, or TDI. VA-274 is low viscosity to be used in applications with thin wall sections for excellent flow rates.

General Information			
Features	High Flow		
	High Rigidity		
	Low Viscosity		
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent		
Processing Method	Vacuum Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Hardener	1.05	g/cm ³	
Cured	1.08	g/cm ³	
Base Resin	1.16	g/cm ³	
Molding Shrinkage - Flow	0.50 to 1.0	%	ASTM D2566
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	2520	MPa	ASTM D790
Flexural Strength	115	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	74.0	°C	
1.8 MPa, Unannealed	70.0	°C	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Mix Ratio by Volume: 55			
Hardener	Mix Ratio by Weight: 50		

Mix Ratio by Weight: 100

Resin	Mix Ratio by Volume: 100		
Demold Time	240 to 480	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
-- ¹	0.73	Pa·s	
-- ²	0.75	Pa·s	
-- ³	0.90	Pa·s	
Curing Time ⁴	40	hr	
Gel Time	15 to 21	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	80 to 86		ASTM D2240
Tensile Strength	67.6	MPa	ASTM D638
Tensile Elongation at Break	7.0	%	ASTM D638
NOTE			
1.	Hardener		
2.	Mixed		
3.	Resin		
4.	24 hours at 77°F + 16 hours at 180°F		

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