

RapidVac™ VA-285

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

VA-285 is a tough, heat-resistant polyurethane formulated for vacuum assisted casting systems and short mold cycle times. Excellent physical properties can be obtained without the utilization of mercury, MOCA, or TDI. VA-285 is easily pigmented.

General Information			
Features	Fast Molding Cycle		
	Good Toughness		
	Medium Heat Resistance		
RoHS Compliance	RoHS Compliant		
Appearance	Off-White		
Processing Method	Vacuum Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Hardener	1.13	g/cm ³	
Cured	1.20	g/cm ³	
Base Resin	1.25	g/cm ³	
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D2566
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	2520	MPa	ASTM D790
Flexural Strength	93.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	40	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	95.0	°C	
1.8 MPa, Unannealed	88.0	°C	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Mix Ratio by Volume: 64			
Hardener	Mix Ratio by Weight: 58		
	Mix Ratio by Weight: 100		
Resin	Mix Ratio by Volume: 100		

Demold Time	30 to 60	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
38°C ¹	0.20	Pa·s	
38°C ²	0.50	Pa·s	
38°C ³	0.97	Pa·s	
Curing Time ⁴	25	hr	
Gel Time	3.5 to 4.5	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	80 to 90		ASTM D2240
Tensile Strength	80.7	MPa	ASTM D638
Tensile Elongation at Break	12	%	ASTM D638
NOTE			
1.	Resin		
2.	Mixed		
3.	Hardener		
4.	24 hours at 77°F + 1 hour at 150°F		

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