

RapidVac™ VA-288

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

VA-288 is a rigid, long gel time urethane, formulated for room temperature hand-batch or vacuum assisted casting methods. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA, or TDI.

General Information			
Features	High Rigidity		
RoHS Compliance	RoHS Compliant		
Appearance	Grey		
Processing Method	Vacuum Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Hardener	1.22	g/cm ³	
Cured	1.33	g/cm ³	
Base Resin	1.43	g/cm ³	
Molding Shrinkage - Flow	0.50	%	ASTM D2566
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	6860	MPa	ASTM D790
Flexural Strength	128	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 (1.8 MPa, Unannealed)	84.0	°C	ASTM D648
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 88		
Hardener	Mix Ratio by Weight: 75		
	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			
38°C ¹	1.0	Pa · s	

38°C ²	1.0	Pa·s	
38°C ³	1.2	Pa·s	
Curing Time ⁴	1.7E+2	hr	
Gel Time	15 to 19	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	80 to 90		ASTM D2240
Tensile Modulus	4830	MPa	ASTM D638
Tensile Strength	81.4	MPa	ASTM D638
Tensile Elongation at Break	3.0	%	ASTM D638
NOTE			
1.	Mixed		
2.	Resin		
3.	Hardener		
4.	1 hour at 150°F + 7 days at 77°F		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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