RapidVac™ VA-258

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

VA-258 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-258 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/cm³	
Cured	1.34	g/cm³	
Base Resin	1.45	g/cm³	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Flexural Modulus	2280	MPa	ASTM D790
Flexural Strength	89.6	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	43	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	96.0	°C	
1.8 MPa, Unannealed	90.0	°C	
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	15 to 45	min	
Uncured Properties	**Nominal Value**	**Unit**	**Test Method**
Viscosity			
38°C [1]	0.55	Pa·s	

38°C [2]	0.60	Pa·s	
38°C [3]	1.0	Pa·s	
Curing Time [4]	40	hr	
Gel Time	1.5 to 2.5	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	80 to 90		ASTM D2240
Tensile Strength	48.3	MPa	ASTM D638
Tensile Elongation at Break	11	%	ASTM D638

NOTE	
1.	Hardener
2.	Resin
3.	Mixed
4.	24 hours at 77°F + 16 hours at 180°F

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