

RTV-2 P-100

Silicone Rubber, RTV-2

Silicones, Inc.

Message:

P-100 is a low viscosity, medium tear strength, platinum-catalyzed, RTV-2 silicone rubber, which was designed to have outstanding heat and chemical resistance. It is easy to mix and de-air, and will cure with virtually no shrinkage. The speed at which the rubber hardens can be dramatically accelerated with heat or with Pt Accelerator at room temperature. P-100 may show some inhibition sensitivity. P-100 is extremely useful for casting solid polyurethane, polyurethane foam, polyesters, epoxies and some low melting point metals.

General Information			
Features	Good Chemical Resistance		
	Good Tear Strength		
	High Heat Resistance		
	Low Viscosity		
Uses	Molds/Dies/Tools		
Forms	Liquid		
Physical	Nominal Value	Unit	
Specific Gravity	1.25	g/cm³	
Thermal	Nominal Value	Unit	
Service Temperature - Cured	-51 to 329	°C	
Coverage - Cured	0.802	cm³/g	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Hardener	Mix Ratio by Weight: 1.0		
	Mix Ratio by Volume: 13		
	Mix Ratio by Weight: 10		
Resin	Mix Ratio by Volume: 100		
Shelf Life	26	wk	
Thermoset Mix Viscosity ¹	25000 to 40000	cP	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- ²	Brown		
-- ³	Off White		
Viscosity			
-- ⁴	30 to 50	Pa·s	

-- ⁵	1500 to 2500	Pa·s	
Curing Time	16 to 24	hr	
Pot Life	60 to 120	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness			
Shore A ⁶	26 to 34		
Shore A ⁷	26 to 40		
Tensile Strength	3.03 to 3.45	MPa	ASTM D412
Tensile Elongation at Break	320 to 370	%	ASTM D412
Tear Strength	10.5 to 14.0	kN/m	ASTM D624
Electric Strength	22	kV/mm	
Relative Permittivity (100 Hz)	2.10		
Volume Resistivity	4.5E+14	ohms·cm	
Dissipation Factor (100 Hz)	9.0E-3		
NOTE			
1.	Mixed		
2.	Activator		
3.	Base		
4.	Base		
5.	Activator		
6.	1 Day		
7.	7 Days		

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