

# RTV-2 P-90

Silicone Rubber, RTV-2

Silicones, Inc.

## Message:

P-90 is a high tear strength, platinum-catalyzed, RTV-2 silicone rubber. 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. Addition-cure two-component silicone rubbers exhibit excellent chemical and heat resistance, but may show inhibition sensitivity. P-90 offers excellent release properties and is extremely useful for those applications where exceptional flexibility and tear resistance are required.

General Information			
Features	Good Chemical Resistance		
	Good Flexibility		
	Good Tear Strength		
	High Heat Resistance		
	Low Shrinkage		
Uses	Molds/Dies/Tools		
Forms	Liquid		
Physical	Nominal Value	Unit	
Specific Gravity	1.13	g/cm <sup>3</sup>	
Thermal	Nominal Value	Unit	
Service Temperature - Cured	-51 to 316	°C	
Coverage - Cured	0.885	cm <sup>3</sup> /g	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Weight: 1.0		
Hardener	Mix Ratio by Volume: 12		
	Mix Ratio by Weight: 10		
Resin	Mix Ratio by Volume: 100		
Shelf Life	26	wk	
Thermoset Mix Viscosity <sup>1</sup>	40000 to 55000	cP	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- <sup>2</sup>	Red		
-- <sup>3</sup>	White		
Viscosity			

-- <sup>4</sup>	1.5 to 2.5	Pa·s	
-- <sup>5</sup>	60 to 80	Pa·s	
Curing Time	16 to 24	hr	
Pot Life	1.0 to 2.0	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness			
Shore A <sup>6</sup>	28 to 36		
Shore A <sup>7</sup>	31 to 39		
Tensile Strength	3.79 to 4.48	MPa	ASTM D412
Tensile Elongation at Break	390 to 450	%	ASTM D412
Tear Strength	20.1 to 23.6	kN/m	ASTM D624
Electric Strength	23	kV/mm	
Relative Permittivity (100 Hz)	2.80		
Volume Resistivity	5.0E+14	ohms·cm	
Dissipation Factor (100 Hz)	6.0E-3		
NOTE			
1.	Mixed		
2.	Activator		
3.	Base		
4.	Activator		
5.	Base		
6.	1 Day		
7.	7 Days		

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