

RTV-2 P-50

Silicone Rubber, RTV-2

Silicones, Inc.

Message:

P-50 is a high durometer, platinum-catalyzed, RTV-2 silicone rubber designed for casting polyurethane and epoxy molds. 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 may show inhibition sensitivity. P-50 offers outstanding chemical and heat resistance and the rigidity to withstand the expansion of most polyurethane foams.

General Information			
Features	Good Chemical Resistance Good Tear Strength High Heat Resistance Low Shrinkage		
Uses	Molds/Dies/Tools		
Forms	Liquid		
Physical	Nominal Value	Unit	
Specific Gravity	1.30	g/cm ³	
Thermal	Nominal Value	Unit	
Service Temperature - Cured	-51 to 343	°C	
Coverage - Cured	0.770	cm ³ /g	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Weight: 1.0		
Hardener	Mix Ratio by Volume: 14 Mix Ratio by Weight: 10		
Resin	Mix Ratio by Volume: 100		
Shelf Life	26	wk	
Thermoset Mix Viscosity ¹	70000 to 90000	cP	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- ²	Green		
-- ³	Tan		
Viscosity			
-- ⁴	1.0 to 2.0	Pa · s	

-- ⁵	110 to 130	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	48 to 56		
Shore A ⁷	50 to 58		
Tensile Strength	4.83 to 5.52	MPa	ASTM D412
Tensile Elongation at Break	180 to 230	%	ASTM D412
Tear Strength	10.5 to 14.0	kN/m	ASTM D624
Electric Strength	20	kV/mm	
Relative Permittivity (100 Hz)	2.90		
Volume Resistivity	5.0E+14	ohms·cm	
Dissipation Factor (100 Hz)	0.015		

NOTE

- | | |
|----|-----------|
| 1. | Mixed |
| 2. | Activator |
| 3. | Base |
| 4. | Activator |
| 5. | Base |
| 6. | 1 Day |
| 7. | 7 Days |

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