

RTV-2 P-44

Silicone Rubber, RTV-2

Silicones, Inc.

Message:

P-44 is a translucent, medium viscosity, high tear strength, platinum-catalyzed, RTV-2 silicone rubber, which was designed for casting parts where visual inspection is required. 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 some inhibition sensitivity. P-44 is supplied with 2 Activators: P-44A (1) is used for production molds, while P-44A (2) is used for casting clear parts. P-44 is extremely useful for prototype applications where superior mechanical properties are required.

General Information			
Features	Good Chemical Resistance Good Tear Strength High Heat Resistance Low Shrinkage Medium Viscosity		
Uses	Mold Making Molds/Dies/Tools		
Forms	Liquid		
Physical	Nominal Value	Unit	
Specific Gravity	1.09	g/cm ³	
Thermal	Nominal Value	Unit	
Service Temperature - Cured	-51 to 316	°C	
Coverage - Cured	0.925	cm ³ /g	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components	Mix Ratio by Weight: 1.0		
Hardener	Mix Ratio by Volume: 11 Mix Ratio by Volume: 10		
Resin	Mix Ratio by Volume: 100		
Shelf Life	26	wk	
Thermoset Mix Viscosity ¹	50000 to 60000	cP	
Uncured Properties	Nominal Value	Unit	Test Method
Color	-- ² Clear/Transparent		

-- ³	Translucent		
Viscosity			
-- ⁴	1.0 to 2.0	Pa·s	
-- ⁵	90 to 110	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	38 to 46		
Shore A ⁷	38 to 46		
Tensile Strength	3.79 to 4.48	MPa	ASTM D412
Tensile Elongation at Break	230 to 280	%	ASTM D412
Tear Strength	17.5 to 24.5	kN/m	ASTM D624
Electric Strength	20	kV/mm	
Relative Permittivity (100 Hz)	2.90		
Volume Resistivity	1.0E+15	ohms·cm	
Dissipation Factor (100 Hz)	3.0E-3		

NOTE

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

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