



# Silicones, Inc.

P.O. Box 363  
High Point, NC 27261  
Tel: 336-886-5018  
Fax: 336-886-7122  
www.silicones-inc.com

*RTV-2 Silicones Since 1974*

## P-429 Gel

### Product Information

#### General Information

**P-429** is an extremely soft, tacky, transparent, resilient silicone rubber gel. It is a two component, addition cure material that is sensitive to cure inhibition when in contact with sulfur, nitrogen or organo-tin containing materials. **P-429** has a low viscosity that allows for easy mixing, deairing, and pouring. It is used for potting or encapsulating electrical parts where visual inspection is required. It has excellent electrical insulating properties and provides superior damping characteristics. **P-429** has greater mechanical properties than traditional gels and can be used in conjunction with platinum cured special effect silicones to produce realistic simulations of living tissue.

#### Typical Properties

##### Uncatalyzed Compound

<b>Color</b>	Base: Transparent	Activator: Transparent
<b>Viscosity (cps)</b>	Base: 6,000 - 8,000	Activator: 6,000 - 8,000
<b>Mixing Ratio (B/A)</b>	By weight: 1 / 1	By volume: 1 / 1
<b>Mixed Viscosity</b>	6,000 - 8,000	
<b>Working Time</b>	2 to 4 hours	
<b>Cure Time</b>	18 - 24 hours	
<b>Shelf Life</b>	6 months	

##### Vulcanized (cured) Properties (7 days @ 70° F / 50% relative humidity)

<b>Penetrometer Measurement</b> (mm)	1 Day: 40 - 60	7 Days: 50 - 70
<b>Tensile Strength</b> (ASTM D412)	<100 psi	
<b>Elongation</b> (ASTM D412)	>500 %	
<b>Shrinkage</b>	nil	
<b>Specific Gravity</b>	1.00	
<b>Dielectric Strength</b> (volts/mil)	500	
<b>Dielectric Constant</b> (@ 100 HZ)	2.9	
<b>Dissipation Factor</b> (@ 100 HZ)	0.003	
<b>Volume Resistivity</b> (ohms/cm)	$1 \times 10^{15}$	
<b>Service Temperature</b> (° F)	-50 to 300	

*The information contained in this data sheet is, to our best knowledge, true and accurate, but all recommendations or suggestions are made without guarantee. Since the conditions of use are beyond our control, Silicones, Inc. disclaims any liability incurred in connection with the use of our products and information contained herein.*