

RTV-2 XP-429

Silicone Rubber, RTV-2

Silicones, Inc.

Message:

Silicones, Incorporated's XP-429 Platinum Gel 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. XP-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. XP-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.

General Information		
Features	Electrically Insulating	
	Low Viscosity	
	Resilient	
	Soft	
Uses	Electrical Parts	
	Electrical/Electronic Applications	
	Electronic Insulation	
Forms	Gel	
Physical	Nominal Value	Unit
Specific Gravity	0.998	g/cm ³
Thermoset	Nominal Value	Unit
Shelf Life	52	wk
Uncured Properties	Nominal Value	Unit
Color		
-- ¹	Clear/Transparent	
-- ²	Clear/Transparent	
Viscosity		
-- ³	7.0	Pa · s
-- ⁴	7.0	Pa · s
Curing Time	18 to 24	hr
Pot Life	120 to 240	min
Cured Properties	Nominal Value	Unit
Shore Hardness		
Shore A ⁵	40 to 60	
Shore A ⁶	50 to 70	
Tensile Strength	< 0.689	MPa
Tensile Elongation at Break	> 500	%
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.	Activator	
2.	Base	
3.	Activator	
4.	Base	
5.	1 Day	
6.	7 Days	

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