

Momentive Performance Materials RTV159 High Strength Silicone Adhesive Sealant, Red

Category : Polymer , Adhesive , Thermoset , Silicone , Silicone, RTV, Adhesive/Sealant Grade

Material Notes:

RTV 159 is a one component, ready-to-use, high strength silicone rubber adhesive sealant. It cures to tough resilient silicone rubber on exposure to atmospheric moisture at room temperature. RTV159 sealant also provides high temperature performance. It releases acetic acid vapors as a by-products of cure. RTV159 sealant is a paste consistency product which can be applied to horizontal, vertical, and overhead surfaces in applications requiring high strength and temperature performance. Since this adhesive sealants utilizes a moisture cure system, it must not be used in thicknesses greater than 6mm (1/4 in.). Where section depths exceed 6mm (1/4 in.), GE Silicones one-component, addition cure or two-component silicone rubber compounds are suggested. This sealant was not designed for and should not be used for applications intended for permanent implantation into the human body. Mechanical properties for specimen cured 3 days at 25°C and 50% relative humidity. Key Performance Properties: High strength High temperature performance Low temperature flexibility One-component Room temperature cure General primerless adhesion Excellent electrical insulation properties Excellent weatherability, ozone, and chemical resistance GE Silicones became a part of Momentive Performance Materials in 2006.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Momentive-Performance-Materials-RTV159-High-Strength-Silicone-Adhesive-Sealant-Red.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	28	28	
Tensile Strength, Ultimate	7.07 MPa	1030 psi	Cured 7 days at 25°C and 50% relative humidity
Elongation at Break	825 %	825 %	
Tear Strength	15.8 kN/m	90.2 pli	
Peel Strength	10.5 kN/m	60.0 pli	Cured 7 days at 25°C and 50% relative humidity

Thermal Properties	Metric	English	Comments
CTE, linear	270 $\mu\text{m/m}\cdot^\circ\text{C}$	150 $\mu\text{in/in}\cdot^\circ\text{F}$	
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Thermal Conductivity	0.209 W/m-K	1.45 BTU-in/hr-ft $^2\cdot^\circ\text{F}$	
Maximum Service Temperature, Air	260 $^\circ\text{C}$	500 $^\circ\text{F}$	Continuous

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-60.0 Â°C	-76.0 Â°F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.10e+15 ohm-cm	1.10e+15 ohm-cm	
Dielectric Constant	2.6	2.6	
Dielectric Strength	19.7 kV/mm	500 kV/in	
Dissipation Factor	0.00070	0.00070	

Processing Properties	Metric	English	Comments
Cure Time	45.0 min	0.750 hour	Tack-free

Descriptive Properties	Value	Comments
Application rate	175 g/min	
Color	Red	
Consistency	Paste	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China