

Momentive Performance Materials RTV1673LV One Component, Low Volatile Silicone Adhesive Sealant, Black

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

Material Notes:

RTV1673LV one-component, ready-to-use adhesive sealants cures to a tough durable, resilient silicone rubber when exposed to atmospheric moisture at room temperature. Methyl alcohol and a small amount of residual ammonia vapors are released from the sealant surface as a by-product of cure. As such, this product is low odor and non-corrosive to steel and aluminum. RTV1673LV, sealant is a thixotropic paste consistency product. It can be applied to vertical and overhead surfaces without sagging. Since this sealant utilizes a moisture cure system, they should not be used in thickness greater than 6mm (1/4 in.). When section depths exceed 6mm (1/4 in.), GE Silicones one component, addition cure or two-component silicone rubber compounds are recommended. Mechanical properties for specimen cured 3 days at 25°C and 50% relative humidity. Key Performance Properties: One-component product Room temperature cure Primerless adhesion to many substrates Low odor Non-corrosive to aluminum and steel Low volatility Low temperature flexibility High temperature performance Excellent weatherability, ozone and chemical resistance Excellent electrical insulation properties 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-RTV1673LV-One-Component-Low-Volatile-Silicone-Adhesive-Sealant-Black.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.059 g/cc	1.059 g/cc	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	2.48 MPa	360 psi	
Elongation at Break	560 %	560 %	
Adhesive Bond Strength	0.961 MPa	139 psi	At 100% cohesive failure
Tear Strength	8.83 kN/m	50.4 pli	
Peel Strength	8.77 kN/m	50.0 pli	At 100% cohesive failure using 1 in. x 8 in. stainless steel screen at 180° pull angle

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	204 $^\circ\text{C}$	399 $^\circ\text{F}$	Continuous

Brittleness Temperature Thermal Properties	-60.0 Å°C Metric	-76.0 Å°F English	Comments
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Electrical Properties	Metric	English	Comments
Volume Resistivity	2.50e+15 ohm-cm	2.50e+15 ohm-cm	
Dielectric Constant	2.6	2.6	
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	20.0 kV/mm	508 kV/in	
Dissipation Factor	0.0010	0.0010	
	@Frequency 60 Hz	@Frequency 60 Hz	

Processing Properties	Metric	English	Comments
Cure Time	15 min	0.25 hour	Tack-free

Descriptive Properties	Value	Comments
Application rate	3.7 g/min	1/2" ID steel nozzle
Color	Black	
Consistency	Paste	

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