

Momentive Performance Materials RTV109 One Component Acetoxy Adhesive Sealant, Aluminum

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

Material Notes:

RTV series one-component, ready-to-use adhesive sealants are extremely versatile. They cure to a tough, durable, resilient silicone rubber on exposure to atmospheric moisture at room temperature. Acetic acid vapors are released from the sealant surface as a by-product of cure. RTV102, RTV103, RTV108, and RTV109 sealants are standard strength paste consistency products which can be applied to vertical and overhead surfaces where pourable/self-leveling sealants are not practical. Key Performance Properties: One-component products Capability to cure at room temperature and ambient humidity Self adhesion properties Low temperature flexibility High temperature performance Excellent weatherability and ozone and chemical resistance Excellent electrical insulation properties Applications: General purpose bonding, sealing, electrical insulation, formed-in-place gaskets. Can be applied to vertical or overhead surfaces. FDA 21 CFR 177.2600 USDA NSF International Std. No. 51GE 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-RTV109-One-Component-Acetoxy-Adhesive-Sealant-Aluminum.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	30	30	
Tensile Strength, Ultimate	2.75 MPa	398 psi	
Elongation at Break	450 %	450 %	
Adhesive Bond Strength	1.37 MPa	199 psi	At 100% cohesive failure
Tear Strength	7.85 kN/m	44.8 pli	
Peel Strength	7.01 kN/m	40.0 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 $\mu\text{m/m-}^{\circ}\text{C}$ @Temperature 20.0 $^{\circ}\text{C}$	150 $\mu\text{in/in-}^{\circ}\text{F}$ @Temperature 68.0 $^{\circ}\text{F}$	
Thermal Conductivity	0.209 W/m-K	1.45 BTU-in/hr-ft 2 - $^{\circ}\text{F}$	
Maximum Service Temperature, Air	204 $^{\circ}\text{C}$	399 $^{\circ}\text{F}$	Continuous

Thermal Properties	Metric 260 Å°C	English 500 Å°F	Comments Intermittent
Brittleness Temperature	-60.0 Å°C	-76.0 Å°F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.00e+15 ohm-cm	3.00e+15 ohm-cm	
Dielectric Constant	2.8 @Frequency 60 Hz	2.8 @Frequency 60 Hz	
Dielectric Strength	20.0 kV/mm	508 kV/in	
Dissipation Factor	0.0010 @Frequency 60 Hz	0.0010 @Frequency 60 Hz	

Processing Properties	Metric	English	Comments
Cure Time	20.0 min	0.333 hour	Tack-free

Descriptive Properties	Value	Comments
Application rate	400 g/min	
Color	Aluminum	
Consistency	Paste	

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