

Momentive Performance Materials RTV118 One Component Acetoxy Adhesive Sealant, Translucent

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. RTV 112 and 118 sealants are self-leveling products which are preferable to paste-consistency sealants when flow into small crevices and hard to reach places is desired. 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: Electrical insulation, thin section potting, self leveling protective coatings. Will flow into small crevices and hard to reach places. 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-RTV118-One-Component-Acetoxy-Adhesive-Sealant-Translucent.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	
Viscosity	20000 cP	20000 cP	
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	25	25	
Tensile Strength, Ultimate	2.26 MPa	327 psi	
Elongation at Break	325 %	325 %	
Adhesive Bond Strength	0.686 MPa	99.5 psi	At 100% cohesive failure
Peel Strength	2.63 kN/m	15.0 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 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	150 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	0.209 W/m-K	1.45 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	
Maximum Service Temperature, Air	204 $\text{Å}^\circ\text{C}$	399 $\text{Å}^\circ\text{F}$	Continuous

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

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.00e+14 ohm-cm	6.00e+14 ohm-cm	
Dielectric Constant	2.8	2.8	
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	16.0 kV/mm	406 kV/in	
Dissipation Factor	0.0010	0.0010	
	@Frequency 60 Hz	@Frequency 60 Hz	

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

Descriptive Properties	Value	Comments
Color	Translucent	
Consistency	Self-leveling	

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