

Momentive Performance Materials RTV8112 Silicone Rubber Compounds for Potting, Encapsulating and Sealing

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

Material Notes:

RTV8111, RTV8112 and RTV8262 silicone rubber compounds are two-part silicone elastomers supplied in ready-to-use matched kits containing a base compound and curing agent. Mechanical and electrical properties for specimen cured 72 hours at 25°C and 50% relative humidity. Key Performance Properties: Conforms to the physical and electrical requirements of MIL-S-23586E Non-corrosive to copper Retention of elastomeric properties at high temperature up to 204°C (400°F) continuously for RTV8111 and RTV8112 up to 260°C (500°F) continuously for RTV8262 Excellent adhesion capabilities when used with primer Room temperature cure Composition free of solvents Applications: Typical applications include, but are not limited to the potting of electronic circuit modules, electrical connectors and coils, and other applications in electronics, military/defense and commercial aerospace industries. 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-RTV8112-Silicone-Rubber-Compounds-for-Potting-Encapsulating-and-Sealing.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	
Viscosity	11000 cP	11000 cP	
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	42	42	
Tensile Strength, Ultimate	2.06 MPa	299 psi	
Elongation at Break	160 %	160 %	
Tear Strength	4.71 kN/m	26.9 pli	

Thermal Properties	Metric	English	Comments
CTE, linear	250 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	139 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	
Specific Heat Capacity	1.46 J/g- $\text{Å}^\circ\text{C}$	0.350 BTU/lb- $\text{Å}^\circ\text{F}$	
Thermal Conductivity	0.293 W/m-K	2.03 BTU-in/hr-ft Å^2 - $\text{Å}^\circ\text{F}$	
Maximum Service Temperature, Air	204 $\text{Å}^\circ\text{C}$	399 $\text{Å}^\circ\text{F}$	

Minimum Service Temperature, Air Thermal Properties	-54.0 °C Metric	-65.2 °F English	Comments
---	--------------------	---------------------	----------

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.70e+15 ohm-cm	2.70e+15 ohm-cm	
Dielectric Constant	4.02 @Frequency 1000 Hz	4.02 @Frequency 1000 Hz	
Dielectric Strength	18.7 kV/mm	475 kV/in	
Dissipation Factor	0.0070 @Frequency 1000 Hz	0.0070 @Frequency 1000 Hz	

Descriptive Properties	Value	Comments
Color	White	
Consistency	Easily Pourable	

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