

Momentive Performance Materials RTV511 Silicone Rubber Compound for Low Temperature Potting, Encapsulating and Sealing, White

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

Material Notes:

RTV511, RTV560 and RTV577 silicone rubber compounds are low temperature two-part silicone elastomers. They are supplied ready to use with a base compound and DEBT (deputy tin deflagrate) as the standard curing agent. DEBT is suitable for most applications, however, other catalysts are available to facilitate deep section cure, faster cure and automated mixing. Mechanical and electrical properties for 0.5 wt% DEBT curing agent added, cured 7 days at 25°C and 50% relative humidity. Key Performance Properties: Variable work times and cure rates by adjusting the amount and type of curing agent Room temperature cure Composition free of solvents and solvent odor Excellent adhesion capabilities with primer Excellent release properties Applications: Cast-in-place heat shielding Thermal insulation Low and high-temperature bonding Potting and encapsulation of electrical assemblies 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-RTV511-Silicone-Rubber-Compound-for-Low-Temperature-Potting-Encapsulating-and-Sealing-White.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	
Viscosity	16000 cP	16000 cP	
Linear Mold Shrinkage	0.013 cm/cm	0.013 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	42	42	
Tensile Strength, Ultimate	2.65 MPa	384 psi	
Elongation at Break	170 %	170 %	
Tear Strength	3.73 kN/m	21.3 pli	

Thermal Properties	Metric	English	Comments
CTE, linear	220 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	122 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$ @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	0.260 W/m-K	1.80 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	260 Å°C Metric	500 Å°F English	Intermittent Comments
Brittleness Temperature	-115 Å°C	-175 Å°F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+14 ohm-cm	2.00e+14 ohm-cm	
Dielectric Constant	3.6	3.6	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	20.5 kV/mm	521 kV/in	
Dissipation Factor	0.0050	0.0050	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	1440 min	24.0 hour	0.5% DBT curing agent added
	@Temperature 25.0 Å°C	@Temperature 77.0 Å°F	

Descriptive Properties	Value	Comments
Color	White	
Consistency	Pourable	
Work Time	1.5 hours	At 25Å°C, 0.5% DBT curing agent added

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