

Momentive Performance Materials RTV560 Silicone Rubber Compound for Low Temperature Potting, Encapsulating and Sealing, Red

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 DBT (dibutyl tin dilaurate) as the standard curing agent. DBT is suitable for most applications, however, other catalysts are available to facilitate deep section cure, faster cure and automated mixing. RTV560 has the widest useful temperature (highest and lowest) of any silicone elastomer. Mechanical and electrical properties for 0.5 wt% DBT 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-RTV560-Silicone-Rubber-Compound-for-Low-Temperature-Potting-Encapsulating-and-Sealing-Red.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	
Viscosity	30000 cP	30000 cP	
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	
Tensile Strength, Ultimate	4.71 MPa	683 psi	
Elongation at Break	120 %	120 %	
Tear Strength	5.39 kN/m	30.8 pli	

Thermal Properties	Metric	English	Comments
CTE, linear	200 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	111 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	
Specific Heat Capacity	1.46 J/g $\cdot\text{Å}^\circ\text{C}$	0.350 BTU/lb $\cdot\text{Å}^\circ\text{F}$	
Thermal Conductivity	0.310 W/m-K	2.15 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	
Maximum Service Temperature, Air	260 $\text{Å}^\circ\text{C}$	500 $\text{Å}^\circ\text{F}$	Continuous

Thermal Properties	315 Â°C Metric	599 Â°F English	Intermittent Comments
Brittleness Temperature	-115 Â°C	-175 Â°F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+14 ohm-cm	2.00e+14 ohm-cm	
Dielectric Constant	3.9	3.9	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	21.2 kV/mm	538 kV/in	
Dissipation Factor	0.020	0.020	
	@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 Â°C	@Temperature 77.0 Â°F	

Descriptive Properties	Value	Comments
Color	Red	
Consistency	Pourable	
Work Time	2.25 hours	At 25Â°C, 0.5% DBT curing agent added

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