

## Momentive Performance Materials RTV88 Silicone Rubber Compound for High Temperature, Red

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

### Material Notes:

RTV31, RTV60 and RTV88 silicone rubber compounds are high 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. RTV31, RTV60 and RTV88 silicone rubber compounds differ primarily in viscosity in the uncured state. 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. Retention of elastomeric properties at temperatures from -54°C (-65°F) up to 260°C (500°F) continuously, and up to 316°C (600°F) for short periods of time. Applications: Potting and encapsulating electric motors and transformers. Fabrication of rubber parts. Casting molds for low-melting point metals. Release applications such as rubber rollers. Thermal insulation. 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-RTV88-Silicone-Rubber-Compound-for-High-Temperature-Red.php](http://www.lookpolymers.com/polymer_Momentive-Performance-Materials-RTV88-Silicone-Rubber-Compound-for-High-Temperature-Red.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.47 g/cc	1.47 g/cc	
Viscosity	880000 cP	880000 cP	
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	58	58	
Tensile Strength, Ultimate	5.79 MPa	839 psi	
Elongation at Break	120 %	120 %	
Tear Strength	7.85 kN/m	44.8 pli	

Thermal Properties	Metric	English	Comments
CTE, linear	200 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	111 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @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	0.310 W/m-K	2.15 BTU-in/hr-ft $\text{Å}^2$ - $\text{Å}^\circ\text{F}$	

Thermal Properties <small>Temperature, Air</small>	Metric <sup>°C</sup>	English	Comments
Brittleness Temperature	-54.0 °C	-65.2 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.80e+14 ohm-cm	2.80e+14 ohm-cm	
Dielectric Constant	4.6	4.6	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	17.4 kV/mm	442 kV/in	
Dissipation Factor	0.030	0.030	
	@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 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Red	
Consistency	Spreadable paste	
Work Time	0.75 hours	At 25°C, 0.5% DBT curing agent added

## Contact Songhan Plastic Technology Co.,Ltd.

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