

## Momentive Performance Materials RTV31 Red Extreme High Temperature Potting/Encapsulating Compound

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE) , Silicone , Silicone, RTV, Encapsulation Grade

### Material Notes:

Two-part condensation cure. Two-part condensation cure silicones RTVs are designed to cure at room temperature, and can be applied at temperature up to one inch (2.5 cm). These are very tough materials, highly resistant to contamination, and will not be affected by other chemicals during cure or after. Typical uses: Potting surge protectors on telephone poles, industrial filters, high temp applications; mechanical applications. Data provided by the manufacturer, GE Silicones. 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-RTV31-Red-Extreme-High-Temperature-PottingEncapsulating-Compound.php](http://www.lookpolymers.com/polymer_Momentive-Performance-Materials-RTV31-Red-Extreme-High-Temperature-PottingEncapsulating-Compound.php)

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in <sup>3</sup>	
Viscosity	25000 cP @Temperature 25.0 Â°C	25000 cP @Temperature 77.0 Â°F	
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	54	54	
Tensile Strength, Ultimate	5.98 MPa	867 psi	
Elongation at Break	170 %	170 %	
Tear Strength	5.00 kN/m	28.5 pli	Die B

Thermal Properties	Metric	English	Comments
CTE, linear	200 Âµm/m-Â°C @Temperature 20.0 Â°C	111 Âµin/in-Â°F @Temperature 68.0 Â°F	
Thermal Conductivity	0.310 W/m-K	2.15 BTU-in/hr-ftÂ²- Â°F	
Maximum Service Temperature, Air	260 Â°C	500 Â°F	Continuous useful temperature.
Minimum Service Temperature, Air	-54.0 Â°C	-65.2 Â°F	Continuous useful temperature.

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.60e+14 ohm-cm	1.60e+14 ohm-cm	
Dielectric Constant	4.4 @Frequency 1000 Hz	4.4 @Frequency 1000 Hz	
Dielectric Strength	17.0 kV/mm @Thickness 1.91 mm	432 kV/in @Thickness 0.0750 in	
Dissipation Factor	0.030 @Frequency 1000 Hz	0.030 @Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Processing Temperature	25.0 Â°C	77.0 Â°F	Cure time 24 hrs.
Pot Life	120 min @Temperature 25.0 Â°C	120 min @Temperature 77.0 Â°F	

## Contact Songhan Plastic Technology Co.,Ltd.

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