

Momentive Performance Materials RTV566 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: Aerospace/other when low outgassing is required. 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-RTV566-Red-Extreme-High-Temperature-PottingEncapsulating-Compound.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	
Viscosity	42700 cP @Temperature 25.0 °C	42700 cP @Temperature 77.0 °F	
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	61	61	
Tensile Strength, Ultimate	5.49 MPa	796 psi	
Elongation at Break	120 %	120 %	

Thermal Properties	Metric	English	Comments
CTE, linear	200 µm/m-°C @Temperature 20.0 °C	111 µin/in-°F @Temperature 68.0 °F	
Thermal Conductivity	0.310 W/m-K	2.15 BTU-in/hr-ft ² - °F	
Maximum Service Temperature, Air	260 °C	500 °F	Continuous useful temperature.
Minimum Service Temperature, Air	-115 °C	-175 °F	Continuous useful temperature.

Electrical Properties	Metric	English	Comments
Electrical Resistivity	2.00e+14 ohm-cm	2.00e+14 ohm-cm	
	3.9	3.9	

Dielectric Constant Electrical Properties	Metric @Frequency 1000 Hz	English @Frequency 1000 Hz	Comments
Dielectric Strength	21.2 kV/mm @Thickness 1.91 mm	538 kV/in @Thickness 0.0750 in	
Dissipation Factor	0.020 @Frequency 1000 Hz	0.020 @Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Processing Temperature	25.0 Â°C	77.0 Â°F	Cure time 24 hrs.
Pot Life	90.0 min @Temperature 25.0 Â°C	90.0 min @Temperature 77.0 Â°F	

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