

## Momentive Performance Materials RTV656 Clear Extreme Low Temperature Potting/Encapsulating Compound

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

### Material Notes:

Two-part addition cure. Two-part addition cure RTV silicones can be cured very quickly with the use of high heat. Addition cure products have no cure by-products and can be used to unlimited depths. Typical uses: Aerospace potting, bonding, and sealing where extended low temp performance is needed. 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-RTV656-Clear-Extreme-Low-Temperature-PottingEncapsulating-Compound.php](http://www.lookpolymers.com/polymer_Momentive-Performance-Materials-RTV656-Clear-Extreme-Low-Temperature-PottingEncapsulating-Compound.php)

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in <sup>3</sup>	
Viscosity	4000 cP @Temperature 25.0 °C	4000 cP @Temperature 77.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	44	44	
Tensile Strength, Ultimate	6.37 MPa	924 psi	
Elongation at Break	160 %	160 %	

Thermal Properties	Metric	English	Comments
CTE, linear	270 $\mu\text{m/m-}^\circ\text{C}$ @Temperature 20.0 °C	150 $\mu\text{in/in-}^\circ\text{F}$ @Temperature 68.0 °F	
Thermal Conductivity	0.190 W/m-K	1.32 BTU-in/hr-ft <sup>2</sup> - °F	
Maximum Service Temperature, Air	204 °C	399 °F	Continuous useful temperature.
Minimum Service Temperature, Air	-115 °C	-175 °F	Continuous useful temperature.

Optical Properties	Metric	English	Comments
Refractive Index	1.406	1.406	
Transmission, Visible	90 %	90 %	clear; thickness not quantified

Electrical Properties	Metric	English	Comments
Electrical Resistivity	3.20e+15 ohm-cm	3.20e+15 ohm-cm	
Dielectric Constant	2.89 @Frequency 1000 Hz	2.89 @Frequency 1000 Hz	
Dielectric Strength	19.7 kV/mm @Thickness 1.91 mm	500 kV/in @Thickness 0.0750 in	
Dissipation Factor	0.00040 @Frequency 1000 Hz	0.00040 @Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Processing Temperature	25.0 Â°C	77.0 Â°F	Cure time 4 hours.
Pot Life	240 min @Temperature 25.0 Â°C	240 min @Temperature 77.0 Â°F	

## Contact Songhan Plastic Technology Co.,Ltd.

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