

Momentive Performance Materials RTV6166 Clear Potting/Encapsulating Gel

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: GP gel. Automotive underhood 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-RTV6166-Clear-PottingEncapsulating-Gel.php

Physical Properties	Metric	English	Comments
Density	0.980 g/cc	0.0354 lb/in ³	
Viscosity	750 cP	750 cP	
	@Temperature 25.0 Â°C	@Temperature 77.0 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear	270 Âµm/m-Â°C	150 Âµin/in-Â°F	
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
Thermal Conductivity	0.190 W/m-K	1.32 BTU-in/hr-ftÂ²- Â°F	
Maximum Service Temperature, Air	204 Â°C	399 Â°F	Continuous useful temperature.
Minimum Service Temperature, Air	-50.0 Â°C	-58.0 Â°F	Continuous useful temperature.

Optical Properties	Metric	English	Comments
Refractive Index	1.41	1.41	
Transmission, Visible	90 %	90 %	clear; thickness not quantified

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
Dielectric Constant	2.8	2.8	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	20.5 kV/mm	521 kV/in	
	@Thickness 1.91 mm	@Thickness 0.0750 in	
	0.0010	0.0010	

Designation Factor Electrical Properties	Metric @Frequency 1000 Hz	English @Frequency 1000 Hz	Comments
Processing Properties	Metric	English	Comments
Processing Temperature	25.0 Å°C	77.0 Å°F	Cure time 2 hours.
Pot Life	120 min @Temperature 25.0 Å°C	120 min @Temperature 77.0 Å°F	

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