

Momentive Performance Materials RTV615 Clear General Purpose 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: Solar cell potting. Optical instruments. 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-RTV615-Clear-General-Purpose-PottingEncapsulating-Compound.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in ³	
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 Âµm/m-°C @Temperature 20.0 °C	150 Âµin/in-°F @Temperature 68.0 °F	
Thermal Conductivity	0.190 W/m-K	1.32 BTU-in/hr-ft ² - °F	
Maximum Service Temperature, Air	204 °C	399 °F	Continuous useful temperature.
Minimum Service Temperature, Air	-60.0 °C	-76.0 °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
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Electrical Properties	Metric ^{15 ohm-cm}	English ^{5 ohm-cm}	Comments
Dielectric Constant	2.89	2.89	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	19.7 kV/mm	500 kV/in	
	@Thickness 1.91 mm	@Thickness 0.0750 in	
Dissipation Factor	0.00040	0.00040	
	@Frequency 1000 Hz	@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	240 min	
	@Temperature 25.0 Â°C	@Temperature 77.0 Â°F	

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