

Momentive Performance Materials RTV12 Clear General Purpose 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: GP potting requiring clear RT cure and primerless adhesion. 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-RTV12-Clear-General-Purpose-PottingEncapsulating-Compound.php

Physical Properties	Metric	English	Comments
Density	1.00 g/cc	0.0361 lb/in ³	
Viscosity	1500 cP @Temperature 25.0 Â°C	1500 cP @Temperature 77.0 Â°F	
Linear Mold Shrinkage	0.020 cm/cm	0.020 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	18	18	
Elongation at Break	200 %	200 %	

Thermal Properties	Metric	English	Comments
CTE, linear	290 Âµm/m-Â°C @Temperature 20.0 Â°C	161 Âµin/in-Â°F @Temperature 68.0 Â°F	
Thermal Conductivity	0.170 W/m-K	1.18 BTU-in/hr-ftÂ²- Â°F	
Maximum Service Temperature, Air	204 Â°C	399 Â°F	Continuous useful temperature.
Minimum Service Temperature, Air	-54.0 Â°C	-65.2 Â°F	Continuous useful temperature.

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

Electrical Properties	Metric	English	Comments
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Electrical Resistivity Electrical Properties	1.00e+13 ohm-cm Metric	1.00e+13 ohm-cm English	Comments
Dielectric Constant	3.0	3.0	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	15.7 kV/mm	399 kV/in	
	@Thickness 1.90 mm	@Thickness 0.0748 in	
Dissipation Factor	0.0010	0.0010	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Processing Temperature	25.0 Â°C	77.0 Â°F	Cure time 24 hrs.
Pot Life	100 min	100 min	
	@Temperature 25.0 Â°C	@Temperature 77.0 Â°F	

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