

Momentive Performance Materials RTV577 White Extreme Low 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 sealing and insulating; vertical and overhead surfaces. 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-RTV577-White-Extreme-Low-Temperature-PottingEncapsulating-Compound.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	
Viscosity	700000 cP @Temperature 25.0 Â°C	700000 cP @Temperature 77.0 Â°F	
Linear Mold Shrinkage	0.0065 cm/cm	0.0065 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	48	48	
Tensile Strength, Ultimate	3.04 MPa	441 psi	
Elongation at Break	120 %	120 %	
Tear Strength	6.80 kN/m	38.8 pli	Die B

Thermal Properties	Metric	English	Comments
CTE, linear	200 Âµm/m-Â°C @Temperature 20.0 Â°C	111 Âµin/in-Â°F @Temperature 68.0 Â°F	
Thermal Conductivity	0.310 W/m-K	2.15 BTU-in/hr-ftÂ²- Â°F	
Maximum Service Temperature, Air	204 Â°C	399 Â°F	Continuous useful temperature.
Minimum Service Temperature, Air	-115 Â°C	-175 Â°F	Continuous useful temperature.

Electrical Properties	Metric	English	Comments
Electrical Resistivity	5.60e+14 ohm-cm	5.60e+14 ohm-cm	

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	18.5 kV/mm @Thickness 1.91 mm	470 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	120 min @Temperature 25.0 Â°C	120 min @Temperature 77.0 Â°F	

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