

## Momentive Performance Materials RTV630 Blue 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: high strength encapsulation. 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-RTV630-Blue-General-Purpose-PottingEncapsulating-Compound.php](http://www.lookpolymers.com/polymer_Momentive-Performance-Materials-RTV630-Blue-General-Purpose-PottingEncapsulating-Compound.php)

| Physical Properties | Metric                            | English                           | Comments |
|---------------------|-----------------------------------|-----------------------------------|----------|
| Density             | 1.28 g/cc                         | 0.0462 lb/in <sup>3</sup>         |          |
| Viscosity           | 150000 cP<br>@Temperature 25.0 °C | 150000 cP<br>@Temperature 77.0 °F |          |

| Mechanical Properties      | Metric    | English | Comments |
|----------------------------|-----------|---------|----------|
| Hardness, Shore A          | 60        | 60      |          |
| Tensile Strength, Ultimate | 5.69 MPa  | 825 psi |          |
| Elongation at Break        | 250 %     | 250 %   |          |
| Tear Strength              | 20.0 kN/m | 114 pli | Die B    |

| Thermal Properties               | Metric                              | English                               | Comments                       |
|----------------------------------|-------------------------------------|---------------------------------------|--------------------------------|
| CTE, linear                      | 210 µm/m-°C<br>@Temperature 20.0 °C | 117 µin/in-°F<br>@Temperature 68.0 °F |                                |
| Thermal Conductivity             | 0.310 W/m-K                         | 2.15 BTU-in/hr-ft <sup>2</sup> -°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. |

| Electrical Properties  | Metric                    | English                   | Comments |
|------------------------|---------------------------|---------------------------|----------|
| Electrical Resistivity | 4.50e+15 ohm-cm           | 4.50e+15 ohm-cm           |          |
| Dielectric Constant    | 3.2<br>@Frequency 1000 Hz | 3.2<br>@Frequency 1000 Hz |          |
|                        | 17.7 kV/mm                | 450 kV/in                 |          |

| Dielectric Strength<br>Electrical Properties | Metric<br>@ Thickness 1.91 mm | English<br>@ Thickness 0.0750 in | Comments |
|----------------------------------------------|-------------------------------|----------------------------------|----------|
| Dissipation Factor                           | 0.0060<br>@Frequency 1000 Hz  | 0.0060<br>@Frequency 1000 Hz     |          |

| Processing Properties  | Metric                          | English                         | Comments           |
|------------------------|---------------------------------|---------------------------------|--------------------|
| Processing Temperature | 25.0 °C                         | 77.0 °F                         | Cure time 4 hours. |
| Pot Life               | 240 min<br>@Temperature 25.0 °C | 240 min<br>@Temperature 77.0 °F |                    |

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