

## Trelleborg Emerson & Cuming Stycast® 4952/25 Two-Component Silicone High Service Temp Encapsulant

Category : Polymer , Adhesive , Thermoset , Epoxy , Epoxy Encapsulant , Unreinforced , Epoxy , High Temperature , Silicone

### Material Notes:

**Features and Typical Applications** Ability to withstand high temperatures, thermal shock, and chemical exposure. These products are designed for heat generating electronic devices which operate in harsh environments. Typical applications include sensors, transformers, power supplies, and rectifiers. **Emerson & Cuming 4952/25 Stycast® Two-Component Silicone High Service Temp Encapsulant** Thermally Conductive Poor Chemical Resistance Filled Mix Ratio by Weight = 100:0.4 Cure Type: Room Temp or Heat Bonding Type: Silicone

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Trelleborg-Emerson-Cuming-Stycast-495225-Two-Component-Silicone-High-Service-Temp-Encapsulant.php](http://www.lookpolymers.com/polymer_Trelleborg-Emerson-Cuming-Stycast-495225-Two-Component-Silicone-High-Service-Temp-Encapsulant.php)

| Physical Properties | Metric                           | English                          | Comments |
|---------------------|----------------------------------|----------------------------------|----------|
| Density             | 2.20 g/cc                        | 0.0795 lb/in <sup>3</sup>        |          |
| Viscosity           | 35000 cP<br>@Temperature 25.0 °C | 35000 cP<br>@Temperature 77.0 °F | Mixed    |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
| Hardness, Shore A     | 70     | 70      |          |

| Thermal Properties               | Metric                              | English                                | Comments |
|----------------------------------|-------------------------------------|----------------------------------------|----------|
| CTE, linear                      | 162 µm/m-°C<br>@Temperature 20.0 °C | 90.0 µin/in-°F<br>@Temperature 68.0 °F |          |
| Thermal Conductivity             | 1.00 W/m-K                          | 6.94 BTU-in/hr-ft <sup>2</sup> -°F     |          |
| Maximum Service Temperature, Air | 260 °C                              | 500 °F                                 |          |
| Minimum Service Temperature, Air | -65.0 °C                            | -85.0 °F                               |          |

| Electrical Properties | Metric                    | English                   | Comments |
|-----------------------|---------------------------|---------------------------|----------|
| Dielectric Constant   | 5.2<br>@Frequency 1e+6 Hz | 5.2<br>@Frequency 1e+6 Hz |          |

| Processing Properties | Metric        | English          | Comments |
|-----------------------|---------------|------------------|----------|
| Cure Time             | 240 - 360 min | 4.00 - 6.00 hour |          |

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