

NuSil G-9340

Silicone

NuSil Technology

Message:

As a low stress alternative for electronic packaging, NuSil Technology's silicones allow the designer to choose from a unique line of silicones for various levels of packaging. We have an extensive line of encapsulants, adhesives, and greases to choose from. These include thermally and electrically conductive silicones for Thermal Interface Materials (TIM) or for EMI and RFI shielding applications.

Benefits of Silicone for Electronics:

- Wide Operating Temperature Range of -115 °C to 250 °C
- Low moisture absorption, < 0.4% Typical
- Corrosion Resistance
- High Dielectric Strength > 500 V/mil (0.001 inch) or 20 kV/mm
- Fillers can be added to provide thermal and electrical conductive properties
- Low Modulus (Typically less than 5.5 MPa/800 psi)
- Stable chemical and mechanical properties when exposed to high temperatures
- Low Shrinkage
- Available as gels, elastomers, film adhesives sheeting, and greases

General Purpose: Thermal Interface Materials (TIMs)

Comments: 230 mm Cone Penetration

| General Information | | | |
|------------------------|------------------------------------|-----------|-------------|
| Features | Good Corrosion Resistance | | |
| | Good Thermal Stability | | |
| | Low Moisture Absorption | | |
| | Low Shrinkage | | |
| | Thermally Conductive | | |
| Uses | Electrical/Electronic Applications | | |
| Thermal | Nominal Value | Unit | |
| CLTE - Flow | 3.7E-6 | cm/cm/°C | |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | 1.0E+14 | ohms · cm | ASTM D257 |
| Additional Information | Nominal Value | Unit | |
| Operating Temperature | -40 to 230 | °C | |
| Uncured Properties | Nominal Value | Unit | |
| Color | White | | |
| Density | 2.19 | g/cm³ | |
| Cured Properties | Nominal Value | Unit | |
| Electric Strength | 20 | kV/mm | |

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