# NuSil EPM-2420

#### 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: Potting and Encapsulating Materials Comments: Low Viscosity, Self-leveling Adhesive to Polyester and Polyether General Information

| General Information  |  |                    |  |               |  |  |
|--|--|--------------------|--|---------------|--|--|
| Features   | Good Corrosion Resistance  |                    |  |               |  |  |
|  | Good Thermal Stability<br>Low Moisture Absorption<br>Low Shrinkage   |                    |  |               |  |  |
|  |  |                    |  | Low Viscosity |  |  |
|  |  |                    |  |               |  |  |
|  | Uses   | Adhesives          |  |               |  |  |
|  | Electrical/Electronic Applications   |                    |  |               |  |  |
|  |  |                    |  |               |  |  |
| Processing Method  | Encapsulating  |                    |  |               |  |  |
|  | Potting  |                    |  |               |  |  |
|  | Potting  |                    |  |               |  |  |
|  | Potting  |                    |  |               |  |  |
| Thermoset  | Potting<br>Nominal Value   | Unit               |  |               |  |  |
| Thermoset<br>Thermoset Components  | -  | Unit               |  |               |  |  |
|  | -  | Unit               |  |               |  |  |
| Thermoset Components   | Nominal Value  | Unit               |  |               |  |  |
| Thermoset Components<br>Part A   | Nominal Value<br>Mix Ratio by Weight: 1.0  | Unit               |  |               |  |  |
| Thermoset Components Part A Part B   | Nominal Value<br>Mix Ratio by Weight: 1.0<br>Mix Ratio by Weight: 1.0  |                    |  |               |  |  |
| Thermoset Components Part A Part B Additional Information                                | Nominal Value<br>Mix Ratio by Weight: 1.0<br>Mix Ratio by Weight: 1.0<br>Nominal Value                           |                    |  |               |  |  |
| Thermoset Components Part A Part B Additional Information Cure System                    | Nominal Value<br>Mix Ratio by Weight: 1.0<br>Mix Ratio by Weight: 1.0<br>Nominal Value                           |                    |  |               |  |  |
| Thermoset Components Part A Part B Additional Information Cure System Ionic Content      | Nominal Value<br>Mix Ratio by Weight: 1.0<br>Mix Ratio by Weight: 1.0<br>Nominal Value<br>Platinum               | Unit               |  |               |  |  |
| Thermoset Components Part A Part B Additional Information Cure System Ionic Content CI   | Nominal Value<br>Mix Ratio by Weight: 1.0<br>Mix Ratio by Weight: 1.0<br>Nominal Value<br>Platinum               | Dunit              |  |               |  |  |
| Thermoset Components Part A Part B Additional Information Cure System Ionic Content CI K | Nominal Value<br>Mix Ratio by Weight: 1.0<br>Mix Ratio by Weight: 1.0<br>Nominal Value<br>Platinum<br>< 2<br>< 1 | Unit<br>ppm<br>ppm |  |               |  |  |

| Color                       | Clear/Transparent |                   |
|-----------------------------|-------------------|-------------------|
| Density                     | 1.01              | g/cm <sup>3</sup> |
| Viscosity                   |                   |                   |
| 1                           | 1.2               | Pa·s              |
| 2                           | 2.5               | Pa·s              |
| Curing Time (65°C)          | 1.0               | hr                |
| Cured Properties            | Nominal Value     | Unit              |
| Shore Hardness (Shore A)    | 30                |                   |
| Tensile Strength            | 2.76              | MPa               |
| Tensile Elongation at Break | 150               | %                 |
| NOTE                        |                   |                   |
| 1.                          | Part B            |                   |
| 2.                          | Part A            |                   |

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