# NuSil R-2940

Silicone

NuSil Technology

## Message:

The Aircraft Industry has used silicone adhesives and coatings for over five decades. Silicone's ability to maintain its elasticity and low modulus over a broad temperature range provides excellent utility in extreme environments. Recent advances in material technology provide more opportunities for the Aircraft engineer in choosing the best material for an intended application. Examples of NuSil's capabilities in custom silicones for Aircraft are demonstrated in the following sections.
Fuel Resistance
Static Dissipation and Electrically Conductive Silicones
Ice-Phobic Coatings
Comment: 0.84 W/m-k Thermal Conductivity

| General Information | |
|---|---|
| Features | Electrically Conductive<br>Fuel Resistant<br>Thermally Conductive |
| Uses | Aircraft Applications<br>Electrical/Electronic Applications |

| Thermal | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Thermal Conductivity | 0.84 | W/m/K | ASTM C177 |
| **Thermoset** | **Nominal Value** | **Unit** | |
| Thermoset Components | | | |
| Part A | Mix Ratio by Weight: 20 | | |
| Part B | Mix Ratio by Weight: 1.0 | | |
| Tack Free Time | 1.0 | day | |
| Cure System | Platinum | | |
| Operating Temperature | -50 to 200 | °C | |
| **Uncured Properties** | **Nominal Value** | **Unit** | |
| Color | Grey | | |
| Density | 2.40 | $g/cm^3$ | |
| Curing Time (150°C) | 0.50 | hr | |
| Pot Life | 300 | min | |
| **Cured Properties** | **Nominal Value** | **Unit** | |
| Shore Hardness (Shore A) | 90 | | |
| Tensile Strength | 4.83 | MPa | |
| Tensile Elongation at Break | 35 | % | |
| Tear Strength | 11.4 | kN/m | |
| Electric Strength | 18 | kV/mm | |

## Recommended distributors for this material

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