# NuSil CV-2960

Silicone

NuSil Technology

## Message:

Controlled Volatility (CV) Silicone Materials
Silicone's ability to remain elastic at low temperatures and resistant to breakdown at high temperatures offer excellent utility in extraterrestrial environments where materials are repeatedly exposed to extreme temperatures. NuSil's Controlled Volatility (CV) and Ultra Low Outgassing TM (SCV) silicone products are used by leading space programs to provide the much-needed resilient protection they require against contamination and material degradation.
Benefits of Silicone Materials for Space
Broad Operating Temperature
Compensation for CTE Mismatch
Protection Against Atomic Oxygen
Optically Clear Formulations
Flight Legacy
Comments: 0.8 W/m-K, Primed Lap Shear 205 psi (1.4 MPa), Low Viscosity

| General Information | |
|---|---|
| Features | Low to No Outgassing<br>Low Viscosity<br>Thermally Conductive |
| Uses | Aerospace Applications |
| Agency Ratings | ASTM E 595<br>NASA SP-R-0022A |

| Thermal | Nominal Value | Unit | Test Method |
|---|---|---|---|
| CLTE - Flow | 2.8E-4 | cm/cm/°C | |
| Thermal Conductivity | 0.80 | W/m/K | ASTM E1530 |
| **Thermoset** | **Nominal Value** | **Unit** | |
| Thermoset Components | | | |
| Part A | Mix Ratio by Weight: 10 | | |
| Part B | Mix Ratio by Weight: 1.0 | | |
| Tack Free Time | 3.0 | hr | |
| Cure System | Platinum | | |
| **Uncured Properties** | **Nominal Value** | **Unit** | |
| Color | White | | |
| Density | 1.34 | g/cm³ | |
| Viscosity [1] | 130 | Pa·s | |
| Curing Time (23°C) | 1.7E+2 | hr | |
| Pot Life | 90 | min | |
| **Cured Properties** | **Nominal Value** | **Unit** | |
| Shore Hardness (Shore A) | 60 | | |
| Lap Shear Strength [2] | 1.41 | MPa | |

| | | |
|---|---|---|
| Tensile Strength | 1.41 | MPa |
| Tensile Elongation at Break | 110 | % |
| Tear Strength | 7.88 | kN/m |

| NOTE | |
|---|---|
| 1. | Part A |
| 2. | Primed with CF1-135 |

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## Recommended distributors for this material

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