

# NuSil CV3-2640

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: 2.2 x 10^6 ohm-cm

| General Information |                         |  |
|---------------------|-------------------------|--|
| Features            | Electrically Conductive |  |
|                     | Low to No Outgassing    |  |
| Uses                | Aerospace Applications  |  |
| Agency Ratings      | ASTM E 595              |  |
|                     | NASA SP-R-0022A         |  |

| Thermoset            | Nominal Value            | Unit |
|----------------------|--------------------------|------|
| Thermoset Components |                          |      |
| Part A               | Mix Ratio by Weight: 1.0 |      |
| Part B               | Mix Ratio by Weight: 1.0 |      |
| Tack Free Time       | 10.0                     | hr   |
| Cure System          | Platinum                 |      |

| Uncured Properties | Nominal Value | Unit              |
|--------------------|---------------|-------------------|
| Color              | Black         |                   |
| Density            | 1.01          | g/cm <sup>3</sup> |
| Viscosity          |               |                   |
| -- 1               | 10            | Pa · s            |
| -- 2               | 10            | Pa · s            |
| Curing Time (23°C) | 1.7E+2        | hr                |

| Cured Properties            | Nominal Value | Unit |
|-----------------------------|---------------|------|
| Shore Hardness (Shore A)    | 25            |      |
| Tensile Strength            | 0.483         | MPa  |
| Tensile Elongation at Break | 120           | %    |

| NOTE |        |  |
|------|--------|--|
| 1.   | Part B |  |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

