

Sumitomo Silicone SI 9041A

Silicone

Sumitomo Bakelite North America, Inc.

Message:

SI 9041A is a long fiberglass reinforced silicone molding compound, which exhibits excellent high temperature properties in addition to good molding characteristics for transfer and compression molding. Meets the requirements of ASTM D5948 Type MSI-30.

| General Information | |
|------------------------|--------------------------|
| Filler / Reinforcement | Long Glass Fiber |
| Features | Good Moldability |
| | High Heat Resistance |
| Agency Ratings | ASTM D 5948, Type MSI-30 |
| Appearance | Red |
| Forms | Flakes |
| Processing Method | Compression Molding |
| | Resin Transfer Molding |

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-------------------|-------------|
| Specific Gravity | 1.92 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow | 0.15 to 0.25 | % | ASTM D955 |
| Water Absorption - 48 hr (50°C) | 0.24 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Break) | 31.0 | MPa | ASTM D638 |
| Flexural Modulus | 14700 | MPa | ASTM D790 |
| Flexural Strength (Break) | 69.0 | MPa | ASTM D790 |
| Compressive Strength | 61.0 | MPa | ASTM D695 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | 390 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Annealed) | > 282 | °C | ASTM D648 |
| Electrical | Nominal Value | Unit | Test Method |
| Dielectric Strength ¹ | | | ASTM D149 |
| -- ² | 4.9 | kV/mm | |
| -- ³ | 3.4 | kV/mm | |
| Dielectric Constant ⁴ (1 MHz) | 4.00 | | ASTM D150 |
| Dissipation Factor ⁵ (1 MHz) | 0.022 | | ASTM D150 |
| Arc Resistance | 189 | sec | ASTM D495 |
| NOTE | | | |
| 1. | 60 Hz, Wet | | |

| | |
|----|-------------------------|
| 2. | Method A (Short-Time) |
| 3. | Method B (Step-by-Step) |
| 4. | Wet |
| 5. | Wet |

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