



Overview

SI65GD18 is a 65 Shore A conductive silicone featuring nickel-plated graphite for outstanding EMI and RFI shielding. With a service temperature range of -55°C to 150°C and the ability to endure short excursions beyond this range, it delivers reliable performance in demanding conditions.

Combining flexibility, durability, and cost-effectiveness, SI65GD18 is ideal for electronic enclosures, aerospace, and military applications where conductivity and shielding are critical. Its competitive pricing makes it an excellent choice for engineers seeking high-performance materials.

Features & Benefits

- Excellent EMI & RFI shielding
- 100 dB plane wave shielding effectiveness at 10 GHz

Limitations

- Low resistance to abrasion

Service Temperature

- -55°C to 150°C (-67°F to 302°F)



* Color may vary from image shown.

Test Data

Table 1. Physical Properties

Color	Gray
Hardness, Shore A	65
Tensile Strength, psi (MPa)	325 (2.24)
Elongation	210%
Specific Gravity, g/cm ³	1.95
Min Tear Strength, psi (MPa)	53 (0.37)
Volume Resistivity, Ohm-cm	0.03

Table 2. Compression Set

70hrs at 100°C	35%
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Table 3. Shielding Effectiveness

100 MHz, dB (MIL-DTL83528C)	100
500 MHz, dB (MIL-DTL83528C)	100
2 GHz, dB (MIL-DTL83528C)	100
10 GHz, dB (MIL-DTL83528C)	100

Looking for specific chemical compatibilities or desire more material information? [Please Contact Us!](#)

