



## Overview

SI65GY55 is a 65 shore A, nickel plated aluminum filled conductive silicone offering excellent EMI & RFI shielding performance at a competitive price.

SI65GY55 has a service temperature range of -55°C to 160°C and withstands short excursions outside that range.

## Features & Benefits

- Excellent EMI & RFI shielding
- Military spec MIL-DTL-83528

## Limitations

- Experiences corrosion in salt mist
- Low resistance to abrasion

## Service Temperature

- -55°C to 160°C (-67°F to 320F)

## Specification

- MIL-DTL-83528

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



\* Color may vary from image shown.

## Test Data

Table 1. Physical Properties

Color	Gray
Hardness, Shore A	65
Tensile Strength, psi (MPa)	180 (1.24)
Elongation	100%
Specific Gravity, g/cm <sup>3</sup>	2.5
Min Tear Strength, psi (MPa)	25 (0.17)
Volume Resistivity, Ohm-cm	0.018

Table 2. Compression Set

70hrs at 100°C	8%
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Table 3. Shielding Effectiveness

200 KHz, dB (MIL-DTL-83528C)	70
100 MHz, dB (MIL-DTL-83528C)	105
500 MHz, dB (MIL-DTL-83528C)	110
2 GHz, dB (MIL-DTL-83528C)	105
10 GHz, dB (MIL-DTL-83528C)	100

Table 4. Electrical Stability

Resistance Post Heat Aging, Ohm-cm	0.020
Resistance Under Vibration, Ohm-cm	0.015
Resistance Under EMC, Ohm-cm	0.010

