

S50CL21 Product Data Sheet

EMI/RFI shielding applications

Our wide range of conductive silicones for the Electric Vehicle market are suitable for all electromagnetic interference (EMI) and radio frequency interference (RFI) shielding applications. In addition to shielding, with high chemical resistance and temperature capability – these materials prevent unwanted electrostatic build-up and discharge.

We provide our customers with the highest quality products and technical support on seal design, material recommendation, installation techniques and test analysis, specifically for the electric vehicle market.

S50CL21 is a nickel coated, graphite filled conductive silicone

Basic Polymer: Silicone

Hardness: 50 +/- 5 Shore A

Temperature range: -60°C to +160°C

Colour: Grey

Recommended for:

- Good performance in moderately corrosive environments
- Good electrical conductivity
- Designed to meet MIL-G-83528

Original Physical Properties	Results
Hardness (Shore A)	50 +/- 5
Density (g/cm ³)	2.15
Tensile Strength (MPa)	1.5
Elongation @ Break (%)	400
Tear Strength (kN/m)	9
Compression Set (70 Hrs @ 100°C, %)	25

Products

- O-Rings
- Gaskets
- Extruded profiles

Volume Resistivity (shielding effectiveness)	ASTM D991-89	Ohm/cm	< 0.2
200 KHz (H Field)	MIL-G-83528	dB	--
100 MHz (E Field)	MIL-G-83528	dB	95
500 MHz (E Field)	MIL-G-83528	dB	95
2 GHz (Plane Wave)	MIL-G-83528	dB	85
10 GHz (Plane Wave)	MIL-G-83528	dB	85

These results represent typical material properties. They are achieved under laboratory conditions and do not necessarily correspond to results measured on finished goods. It does not absolve the customer of the responsibility to make tests for their intended process or purpose. Ceetak Ltd makes no warranties and assumes no liability in connection with any use of this information.