

S80CL20 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.

S80CL20 is a silver coated, aluminium filled conductive silicone

Basic Polymer: Silicone

Hardness: 80 +/- 5 Shore A

Temperature range: -60°C to +160°C

Colour: Tan (Natural)

Recommended for:

- Military gasket material of choice for corrosive environments
- Very good electrical conductivity
- Good EMP resistance
- Designed to meet MIL-G-83528

Original Physical Properties	Results
Hardness (Shore A)	80 +/- 5
Density (g/cm ³)	2.05
Tensile Strength (MPa)	2.40
Elongation @ Break (%)	190
Tear Strength (kN/m)	10
Compression Set (70 Hrs @ 100°C, %)	30

Products

- O-Rings
- Gaskets
- Extruded profiles

Volume Resistivity (shielding effectiveness)	ASTM D991-89	Ohm/cm	0.007
200 KHz (H Field)	MIL-G-83528	dB	60
100 MHz (E Field)	MIL-G-83528	dB	115
500 MHz (E Field)	MIL-G-83528	dB	110
2 GHz (Plane Wave)	MIL-G-83528	dB	105
10 GHz (Plane Wave)	MIL-G-83528	dB	100

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.