



## OHMERICS Compound# S1100

### Silver Plated Copper Filled Silicone EMI RFI Shielding Conductive Elastomer

This compound provides very high shielding effectiveness but is susceptible to corrosion. This material should not be used in tropical environments. Please contact [sales@marcorubber.com](mailto:sales@marcorubber.com) for assistance in selecting a specialized compound when increased resistance to temperature, lubricants, or physical properties is required.

**Features:**

- High shielding effectiveness.
- Excellent moisture seal
- Meets most of the military's demanding requirements
- Many profiles and shapes are available

**Limitations:**

- Material will have corrosion in a salt air environment
- Poor abrasion resistance
- Not to be used in an NBC wash-down
- Not to be used in and around brake fluids

**TYPICAL PHYSICAL PROPERTIES**

|   |                       |                      |
|---|-----------------------|----------------------|
| Typical Use or Specification  | MIL-DTL-83528 Type A  |                      |
| Elastomer Binder  | Silicone              |                      |
| Conductive Filler   | Silver Plated Copper  |                      |
| Color   | Tan                   |                      |
|   |                       |                      |
| <b>ORIGINAL PROPERTIES</b>  | <b>Test Procedure</b> | <b>Typical Value</b> |
| Durometer, Shore A  | ASTM D2240            | 65                   |
| Tensile Strength, Min., psi   | ASTM D412             | 200                  |
| Ultimate Elongation, Min., %  | ASTM D412             | 100                  |
| Specific Gravity, ASTM D297   | ASTM D792             | 3.5                  |
| Compression Set, % (70 hrs. @ 100°C)                                    | ASTM D395             | 32                   |
| Compression/Deflection %  | ASTM D575             | 3.5                  |
| Tear Strength, Min., lbs/in   | ASTM D624             | 25                   |
| Operating Temperature Range °C  | ASTM D1329            | -45 to +125          |
| <b>Volume Resistivity, Ohm-cm</b>                                       | Mil-DTL 83528         | 0.004                |
| <b>Shielding Effectiveness, ASTM D4935, 100 MHz-10 GHz (E-field) db</b> | Mil-DTL 83528         | 70 to 120            |

Date: 2016-7-1

This information is to the best of our knowledge accurate and reliable. However, Marco Rubber makes no warranty, expressed or implied, that parts manufactured from this material will perform satisfactorily in the customer's application. It's the customer's responsibility to evaluate parts prior to use.