



ΩHMERICS Compound# S1099

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 engineering@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 washdown
- Not to be used in and around brake fluids

TYPICAL PHYSICAL PROPERTIES

Typical Use or Specification	MIL-DTL-83528 Type K	
Elastomer Binder	Silicone	
Conductive Filler	Silver Plated Copper	
Color	Tan	
ORIGINAL PROPERTIES	Test Procedure	Typical Value
Durometer, Shore A	ASTM D2240	80
Tensile Strength, Min., psi	ASTM D412	400
Ultimate Elongation, Min., %	ASTM D412	100/300
Specific Gravity, ASTM D297	ASTM D792	3.6
Compression Set, % (70 hrs. @ 100°C)	ASTM D395	35
Compression/Deflection %	ASTM D575	35
Tear Strength, Min., lbs/in	ASTM D624	40
Operating Temperature Range °C	ASTM D1329	-45 to +125
Volume Resistivity, Ohm-cm	MIL-DTL 83528	0.005
Shielding Effectiveness, ASTM D4935, 100 MHz-10 GHz (E-field) db	MIL-DTL 83528	70 to 120

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.