



OHMERICS Compound# S1097

Silver Plated Aluminum Filled Silicone EMI RFI Shielding Conductive Elastomer

This material will provide very high shielding effectiveness and is very good in a salt air corrosive environment. This material is well suited for a wide range of general military applications. Please contact engineering@marcorubber.com for assistance in selecting a specialized compound when increased resistance to temperature, lubricants, or physical properties is required.

Features:

- Very Good Shielding effectiveness
- Works well in a salt air corrosive environment
- Wide range of shapes and profiles are available

Limitations:

- Poor abrasion resistance
- Not to be used in NBC wash downs
- Not to be used near break fluids

TYPICAL PHYSICAL PROPERTIES

Typical Use or Specification	MIL-DTL-83528 Type B	
Elastomer Binder	Silicone	
Conductive Filler	Silver Plated Aluminum	
Color	Tan	
ORIGINAL PROPERTIES	Test Procedure	Typical Value
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	1.9
Compression Set, % (70hrs. @ 100°C)	ASTM D395	32
Compression/Deflection %	ASTM D575	3.2
Tear Strength, Min., lbs/in	ASTM D624	30
Operating Temperature Range °C	ASTM D1329	-55 to +160
Volume Resistivity, Ohm-cm	MIL-DTL 83528	0.008
Shielding Effectiveness, ASTM D4935, 100 MHz-10 GHz (E-field) db	MIL-DTL 83528	60 to 115

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.