



OHMERICS Compound# E1100

Silver Aluminum Filled EPDM EMI RFI Shielding Conductive Elastomer

This compound provides good electronic shielding over a broad range of frequencies. This compound is normally used in military applications where possible (NBC) Nuclear, Biological and Chemical wash downs will occur. Please contact engineering@marcorubber.com for assistance in selecting a specialized compound when increased resistance to temperature, lubricants, or physical properties is required.

Features:

- Good Shielding effectiveness
- Used for NBC wash down applications
- Wide range of profiles

Limitations:

- Should not be used in commercial applications
- Poor abrasion resistance
- Not to be used in the presence of Hydrocarbons and chlorinated solvents

TYPICAL PHYSICAL PROPERTIES

Typical Use or Specification	Military	
Elastomer Binder	EPDM	
Conductive Filler	Silver Plated Aluminum	
Color	Tan	
ORIGINAL PROPERTIES	Test Procedure	Typical Value
Durometer, Shore A	ASTM D2240	70
Tensile Strength, Min., psi	ASTM D412	195
Ultimate Elongation, Min., %	ASTM D412	200
Specific Gravity, ASTM D297	ASTM D792	2.2
Compression Set, % (70 hrs. @ 100°C)	ASTM D395	40
Tear Strength, Min., lbs/in	ASTM D624	50
Operating Temperature Range °C	ASTM D1329	-45 to +130
Volume Resistivity, Ohm-cm	Mil-DTL 83528	0.01
Shielding Effectiveness, 100 MHz	Mil-DTL 83528	95 dB
500 MHz	Mil-DTL 83528	95 dB
1 GHz	Mil-DTL 83528	80 dB
5 GHz	Mil-DTL 83528	80 dB

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.

[Request a Quote](#)

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