



## ΩHMERICS Compound# E1077

### Nickel Plated Graphite Filled EPDM EMI RFI Shielding Conductive Elastomer

#### Common Names:

Ethylene-Propylene (EP, EPDM)

#### General Description:

EPDM rubber (ethylene propylene diene monomer rubber) is an elastomer which is characterized by wide range of applications and good chemical resistance. Marco Ωhmerics compound E1077 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](mailto: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

#### Service Temperature:

-22 to 212°F (-30 to 100°C)

### TYPICAL PHYSICAL PROPERTIES

ORIGINAL PROPERTIES	Test Procedure	Typical Test Results
Hardness, Shore A	D1415	75
Color	-----	Black
Volume Resistivity, Ω-cm	MIL-DTL-83528C	.100
Tensile Strength, psi	D412	200
Elongation, %	D412	75
Compression Set, % (70 hrs. @ 100°C)	D395	40
Compression/Deflection %	D575	2.0
Tear Strength, Min., lbs/in	D624	60

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

Shielding Effectiveness	Typical Test Results (dB)
200 kHz	117
100 MHz	130
500 MHz	120
2 GHz	113
10 GHz	114

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.