



OHMERICS 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 OHmerics 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 sales@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.

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

Date: 2016-7-1

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