

## Marco Compound # E1069

### 70 Durometer, Black, NSF 61 EPDM

### Technical Datasheet

#### **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 compound E1069 meets the NSF-61 specification for drinking water applications.

#### **Features:**

- NSF 61 and AST F477 compliant
- Good heat and compression resistance.
- Resistant to ketones, hot and cold water, steam, alkalis, polar solvents, ozone, sunlight, alcohols, glycol engine coolant and Skydrol (phosphate ester hydraulic fluid).

#### **Limitations:**

- Not recommended for oils, gasoline, kerosene, aromatic and aliphatic hydrocarbon, halogenated solvents, concentrated acids, non-polar solvents, petroleum oils and aromatic fuels.

#### **Cure System:**

- Sulfur

#### **Service Temperature:**

-65 to 250° F (-54 to 121° C)

#### **Specification:**

ASTM D2000 M2BA710 A14 B13 F19 Z1 (Z1 = NSF-61)

#### PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	D2000 Specification Requirements	Typical Test Results
Hardness, Shore A	70 +/- 5	67
Color	Black	Black
Tensile Strength, psi	1,450	2000
Elongation, %	250	415
Specific Gravity	Report	1.15

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<b>HEAT RESISTANCE – A14, ASTM D 865 (70 hrs. @ 100°C)</b>	<b>D2000 Specification Requirements</b>	<b>Typical Test Results</b>
Hardness Change, points, max.	+/-15	+0
Tensile Strength Change, %, max.	+/-30	-3
Ultimate Elongation Change, %, max.	-50	+1

<b>COMPRESSION SET – B13, ASTM D 395 Method B (22 hrs. @ 70°C)</b>	<b>D2000 Specification Requirements</b>	<b>Typical Test Results</b>
Permanent Set, %, max.	50	6

<b>LOW TEMPERATURE RESISTANCE – F17, ASTM D 2137 Method A, 9.3.2</b>	<b>D2000 Specification Requirements</b>	<b>Typical Test Results</b>
Non-brittle after 3 min. @ -55°C	Non-Brittle	Pass

Date: 2016-7-1

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