



## Marco Compound # E1009

### 70 Durometer, Black, FDA + Peroxide Cure 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.

#### **Features:**

- FDA 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:**

- Peroxide

#### **Service Temperature:**

-65 to 300° F (-54 to 150° C)

#### **Specification:**

ASTM D2000 M2DA714 A26 B36 E14 Z1 Z2 (Z1 = FDA, Z2 = PEROXIDE CURE)

### PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	D2000 Specification Requirements	Typical Test Results
Hardness, Shore A	70 +/- 5	72
Color	Black	Black
Tensile Strength, psi	2030	2385
Elongation, %	200	374
Specific Gravity		1.064

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.

<b>HEAT RESISTANCE – A26, ASTM D 865 (70 hrs. @ 150°C)</b>	<b>D2000 Specification Requirements</b>	<b>Typical Test Results</b>
Hardness Change, points, max.	+/-10	+2
Tensile Strength Change, %, max.	+/-20	-4
Ultimate Elongation Change, %, max.	-20	-3

<b>COMPRESSION SET – B36, ASTM D 395 Method B (22 hrs. @ 150°C)</b>	<b>D2000 Specification Requirements</b>	<b>Typical Test Results</b>
Permanent Set, %, max.	40	19

<b>FLUID RESISTANCE – EA14, ASTM D 471 (Water, 70 hrs @ 100°C)</b>	<b>D2000 Specification Requirements</b>	<b>Typical Test Results</b>
Volume Change, %	+5	+4

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