



## Marco Compound # E1054

### 70 Durometer, Black, FDA Sulphur 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:**

- Sulphur

#### **Service Temperature:**

-65 to 265° F (-54 to 130° C)

#### **Specification:**

ASTM D2000 M2BA710 A14 B13 F19

### PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	D2000 Specification Requirements	Typical Test Results
Hardness, Shore A	70 +/- 5	72
Color	Black	Black
Tensile Strength, MPa (psi)	10 (1450)	14.1 (2045)
Elongation, %	250	301
Specific Gravity		1.119

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<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.	+/-15	+2
Tensile Strength Change, %, max.	+/-30	+0
Ultimate Elongation Change, %, max.	-50	-16

<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.	25	15

<b>LOW TEMPERATURE RESISTANCE – F19, ASTM D 2137</b>	<b>ASTM D2000 Requirements</b>	<b>Typical Test Results</b>
Non-brittle after 3 min. @ -55°C (-67° F)	Pass	Pass

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