



Marco Compound # E1109

50 Durometer, Black, Peroxide Cured 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:

- 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:

-45 to 300° F (-45 to 150° C)

Specification:

ASTM 2000 M4CA510 A25 B35 EA14 F17 Z1 (Z1= Peroxide)

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	ASTM D2000 Requirements	Typical Test Results
Hardness, Shore A	50 +/- 5	47
Color	Black	Black
Tensile Strength, MPa	10 (1440)	17.69 (2550)
Ultimate Elongation, %	300	740
Specific Gravity		1.094

HEAT RESISTANCE – (70 hrs. @ 125° C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points, max.	+/- 10	+4
Tensile Strength Change, %, max.	+/- 20	-7
Ultimate Elongation Change, %, max.	-40	-33

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](#)

COMPRESSION SET – (22 hrs. @ 125° C)	ASTM D2000 Requirements	Typical Test Results
Permanent Set, %, max.	70	22
HEAT RESISTANCE – A14, ASTM D 471 (70 hrs. @ 100°C)	ASTM D2000 Requirements	Typical Test Results
Volume Change, %	+/- 5	+ 1.6
LOW TEMPERATURE RESISTANCE		
(Non-brittle after 3 min. @ -40° C)	Non Brittle	Pass

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.