



Marco Compound # E1120
80 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.

Features:

- NSF 61 compliant for use in Drinking Water Systems.
- 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.

Service Temperature:

-65 to 300° F (-54 to 150° C)

Specification:

ASTM D2000 M4BA810 A14 B13 C12 EA14 Z1 (Z1 = NSF61)

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	D2000 Specification Requirements	Typical Test Results
Hardness, Shore A	80 +/- 5	82
Color	Black	Black
Tensile Strength, psi	1,450	2213
Elongation, %	150	209
Specific Gravity	Report	1.188

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.

HEAT RESISTANCE – A14, ASTM D 865 (70 hrs. @ 100°C)	D2000 Specification Requirements	Typical Test Results
Hardness Change, points, max.	+/-10	+3
Tensile Strength Change, %, max.	+/-25	-3.7
Ultimate Elongation Change, %, max.	-25	-16.1

COMPRESSION SET – B13, ASTM D 395 Method B (22 hrs. @ 70°C)	D2000 Specification Requirements	Typical Test Results
Permanent Set, %, max.	25	12.4

OZONE RESISTANCE – C12, ASTM D1171 (72 hrs @ 40°C)	D2000 Specification Requirements	Typical Test Results
100% Quality Retention	Pass	Pass

WATER RESISTANCE – EA14, ASTM D471 (70 hrs @ 100°C)	D2000 Specification Requirements	Typical Test Results
Volume Change, %, max.	10	2.3

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