



Marco Rubber Compound # E1012

90 Durometer, Black, General Use 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.
- Good chemical 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 265°F (-54 to 130°C)

Specification:

ASTM D2000 M2BA910 A14 B13 F19

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	D2000 Specification Requirements	Typical Test Results
Hardness, Shore A	90 +/- 5	87
Color	-----	Black
Tensile Strength, MPa (psi)	10 (1,450)	16.3 (2,263)
Elongation, %	125	279
Specific Gravity		1.22

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HEAT RESISTANCE – A14, ASTM D 865 (70 hrs. @ 100°C)	D2000 Specification Requirements	Typical Test Results
Hardness Change, points, max.	+/-15	+1
Tensile Strength Change, %, max.	+/-30	+5
Ultimate Elongation Change, %, max.	-50	-15

COMPRESSION SET – B13, ASTM D 395 Method B (22 hrs. @ 70°C)	D2000 Specification Requirements	Typical Test Results
Permanent Set, %, max.	50	11

LOW TEMPERATURE RESISTANCE – F17, ASTM D 2137 Method A, 9.3.2 (Non-brittle after 3 min. @ -55°C)	D2000 Specification Requirements	Typical Test Results
		Non-brittle

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