Request a Quote

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Marco Compound # E1006
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 (-43 to 150° C)

Specification:
ASTM 2000 M2BA510 A14 B13 F19 Z1 (Z1= Peroxide)

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	ASTM D2000 Requirements	Typical Test Results
Hardness, Shore A	50 +/- 5	51
Color	Black	Black
Tensile Strength, MPa	10	10.1
Ultimate Elongation, %	400	610
Specific Gravity		1.046

HEAT RESISTANCE – (70 hrs. @ 100°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points, max.	+/- 15	+3
Tensile Strength Change, %, max.	+/- 30	+6
Ultimate Elongation Change, %, max.	-50	-8

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COMPRESSION SET – (22 hrs. @ 70°C)	ASTM D2000 Requirements	Typical Test Results
Permanent Set, %, max.	50	13

LOW TEMPERATURE RESISTANCE	ASTM D2000 Requirements	Typical Test Results
(Non-brittle after 3 min. @ -55°C)	Non Brittle	Pass