Request a Quote

(800) 775-6525 Fax: (800) 421-2923
engineering@marcorubber.com
www.marcorubber.com

Marco Compound # E1083

40 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:
-50 to 300° F (-45 to 150° C)

Specification:
ASTM D2000 M2BA407 A14 B13 F19 Z1 (Z1= Peroxide)

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	ASTM D2000 Requirements	Typical Test Results
Hardness, Shore A	40 +/- 5	43
Color	Black	Black
Tensile Strength, MPa (psi)	7.0 (1,010)	9.5 (1,370)
Ultimate Elongation, %	300	630
Specific Gravity		1.096

HEAT RESISTANCE – (70 hrs. @ 100°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points, max.	+/- 15	+6
Tensile Strength Change, %, max.	+/- 30	11
Ultimate Elongation Change, %, max.	-50	-3

Request a Quote

COMPRESSION SET – (22 hrs. @ 70°C)	ASTM D2000 Requirements	Typical Test Results
Permanent Set, %, max.	50	12

LOW TEMPERATURE RESISTANCE		
(Non-brittle after 3 min. @ -55°C)	Non Brittle	Non Brittle