Request a Quote

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

Marco Compound # E1087

80 Durometer, Black, Peroxide Cured High Strength 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:
-65 to 300° F (-54 to 150° C)

Specification:
ASTM D2000 M7CA814 A25 B35 Z1 (Z1= High Strength)

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	D2000 Specification Requirements	Typical Test Results
Hardness, Shore A	80 +/- 5	78
Color	Black	Black
Tensile Strength, MPa (psi)	14.0 (2,000)	20.7 (2,980)
Ultimate Elongation , %, min.	150	265
Specific Gravity	Report	1.34

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HEAT RESISTANCE – A25, ASTM D 865 (22 hrs. @ 125°C)	D2000 Specification Requirements	Typical Test Results
Hardness Change, points, max.	+10	+3
Tensile Strength Change, %, max.	-20	-7
Ultimate Elongation Change, %, max.	-40	-35

COMPRESSION SET PILED - D395 method B, (22 hrs. @ 125°C)	D2000 Specification Requirements	Typical Test Results
Permanent Set, Percentage of original deflection. Max.	70	25