

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

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.

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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 - D395 method B, (22 hrs. @ 125°C)	D2000 Specification Requirements	Typical Test Results
Permanent Set, %	70	25

Date: 2016-7-1

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