



Marco Compound # E1022
40 Durometer, Black, Sulfur 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:

- Sulfur

Service Temperature:

-50 to 300° F (-45 to 150° C)

Specification:

ASTM D2000 M2BA407 A14 B13 F19

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	D2000 Specification Requirements	Typical Test Results
Hardness, Shore A	40 +/- 5	44
Color	Black	Black
Tensile Strength, MPa (psi)	7.0 (1010)	8.5 (1225)
Ultimate Elongation , %, min.	300	660
Specific Gravity	Report	1.187

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.

HEAT RESISTANCE – A14, ASTM D 865 (70 hrs. @ 100°C)	D2000 Specification Requirements	Typical Test Results
Hardness Change, points, max.	+/-15	+3
Tensile Strength Change, %, max.	+/-30	-9
Ultimate Elongation Change, %, max.	-50	-6

COMPRESSION SET SOLID – D395 method B, (22 hrs. @ 70°C)	D2000 Specification Requirements	Typical Test Results
Permanent Set, Percentage of original deflection. Max.	25%	11%

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

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