Request a Quote

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

Marco Compound # E1016

70 Durometer, Black, Self-Lubricating, Food & Beverage Grade 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. Marco compound E1016 is self-lubricating for ease of installation and also meets a number of Food and Beverage industry specifications.

Features:

- FDA 21 CFR 177.2600 and NSF61 compliant
- Internally lubricated
- Chloramine resistant
- 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)

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	Typical Test Results
Hardness, Shore A	72
Color	Black
Tensile Strength, MPa	16.0
Ultimate Elongation, %	328
Modulus at 100% elongation, MPa	2.4
Specific Gravity	1.10

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HEAT AGING – ASTM D 865 (70 hrs. @ 125°C)	**Typical Test Results**
Hardness Change, points, max.	+1
Tensile Strength Change, %, max.	+5.3
Ultimate Elongation Change, %, max.	+6.4

COMPRESSION SET – ASTM D 395 Method B	**Typical Test Results**
Solid: 22 hrs @ 70°C, %	11.8
Solid: 22 hrs @ 100°C, %	9.6
Solid: 22 hrs @ 125°C, %	8.9
Solid: 22 hrs @ 150°C, %	11.4
Solid: 70 hrs @ 100°C, %	15.6
Plied: 22 hrs @ 70°C, %	11.0
Plied: 22 hrs @ 100°C, %	12.1
Plied: 22 hrs @ 125°C, %	13.2
Plied: 22 hrs @ 150°C, %	13.2
Plied: 70 hrs @ 100°C, %	13.2

FLUID RESISTENCE, Water – ASTM D 471 (70 hrs. @ 100°C)	**Typical Test Results**
Volume Change, %	+1.2
Hardness Change, points	-1

FLUID AGED, Chlorine (50 ppm) – D471, (672 hrs. @ 23°C)	**Typical Test Results**
Hardness Change, points	-3
Volume Change, %	+4.3
Weight Change, %	+4.1%