Request a Quote

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Marco Compound # E1135
70 Durometer, Black, FDA, NSF61, UL157 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:
- FDA compliant
- NSF61 and UL157 certified
- 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:
-65 to 300° F (-54 to 150° C)

Specification:
ASTM D2000 M4CA 710 A25 B35 EA14 F17 G21

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	D2000 Specification Requirements	Typical Test Results
Hardness, Shore A	70 +/- 5	68
Color	Black	Black
Tensile Strength, psi	1450	2078
Ultimate Elongation, %	200	320

HEAT AGING – A25, ASTM D 865 (70 hrs. @ 125°C)	D2000 Specification Requirements	Typical Test Results
Hardness Change, points, max.	10	+2
Tensile Strength Change, %, max.	-20	-6
Ultimate Elongation Change, %, max.	-40	-38

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COMPRESSION SET – B25, ASTM D 395 Method B (22 hrs. @ 125°C)	**D2000 Specification Requirements**	**Typical Test Results**
Permanent Set, %, max.	70	47

FLUID RESISTENCE, Water – EA14, ASTM D 471 (70 hrs. @ 100°C)	**D2000 Specification Requirements**	**Typical Test Results**
Volume Change, %	+/- 5	+1

LOW TEMPERATURE RESISTANCE – F17, ASTM D 2137 Method A, 9.3.2	**D2000 Specification Requirements**	**Typical Test Results**
Non-brittle after 3 min. @ -40°C	Pass	Pass

TEAR RESISTANCE – G21, ASTM D 624	**D2000 Specification Requirements**	**Typical Test Results**
Die C, kN/m, min.	26	35