Request a Quote

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Marco Compound # E1128

80 Durometer, Black, FDA Compliant, Peroxide 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:

- FDA Compliant per 21 CFR 177.2600
- 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 2CA815 A25 B35 C32 EA14 F17

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	D2000 Specification Requirements	Typical Test Results
Hardness, Shore A	80 +/- 5	83
Color	Black	Black
Tensile Strength, psi	1500	2079
Ultimate Elongation , %, min.	100	160
Modulus at 100% elongation, psi (Z1)	----	1196
Specific Gravity (Z2)	----	1.181

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HEAT RESISTANCE – A25, ASTM D 865 (70 hrs. @ 125°C)	**D2000 Specification Requirements**	**Typical Test Results**
Hardness Change, points, max.	+10	+1
Tensile Strength Change, %, max.	-20	+5.9
Ultimate Elongation Change, %, max.	-40	+6.9

COMPRESSION SET SOLID – D395 method B**,** (22 hrs. @ 125°C)	**D2000 Specification Requirements**	**Typical Test Results**
Permanent Set, Percentage of original deflection. Max.	50	6.3

FLUID RESISTENCE, Water – EA14, ASTM D 471 (70 hrs. @ 100°C)	**D2000 Specification Requirements**	**Typical Test Results**
Volume Change, %	± 5	-0.7
Hardness Change, pts	-----	-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