Request a Quote

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Marco Compound # E1011
80 Durometer, Purple 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.

Service Temperature:
-65 to 300° F (-54 to 150° C)

Specification:
ASTM D2000 M2BA810 A14 B13 F19

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	D2000 Specification Requirements	Typical Test Results
Hardness, Shore A	80 +/- 5	79
Color		Purple
Tensile Strength, MPa (psi)	10.0 (1,450)	14.8 (2150)
Ultimate Elongation, %	150	208
Specific Gravity	Report	1.368

HEAT AGING – A14, ASTM D 865 (70 hrs. @ 100°C)	D2000 Specification Requirements	Typical Test Results
Hardness Change, points, max.	±15 max.	+2
Tensile Strength Change, %, max.	±30 max.	+8
Ultimate Elongation Change, %, max.	±50 max.	+51

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COMPRESSION SET – B35, ASTM D 395 Method B (22 hrs. @ 70°C)	**D2000 Specification Requirements**	**Typical Test Results**
Permanent Set, %, max.	50	15

LOW TEMPERATURE BRITTLENESS	**D2000 Specification Requirements**	**Typical Test Results**
Test after 3 min. at -55oC	Non-Brittle	Passed