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Marco Compound # E1070
85 Durometer, Black, 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:
- 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 M2BA910 A14 B13 F17 Z1 (Z1 = Peroxide Cure)

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	D2000 Specification Requirements	Typical Test Results
Hardness, Shore A	85 +/- 5	86
Color	Black	Black
Tensile Strength, MPa (psi)	10 (1,450)	15.1 (2,190)
Ultimate Elongation , %, min.	125	275
Specific Gravity	-----	1.219

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HEAT RESISTANCE – A13, ASTM D865 (70 hrs. @ 100°C)	**D2000 Specification Requirements**	**Typical Test Results**
Hardness Change, points, max.	+/-15	+2
Tensile Strength Change, %, max.	+/-30	+6
Ultimate Elongation Change, %, max.	-50	-13

COMPRESSION SET – B13, ASTM D395 (22 hrs. @ 70°C)	**D2000 Specification Requirements**	**Typical Test Results**
Permanent Set, Percentage of original deflection. Max.	50	13

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	Non-Brittle	Pass

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