



Marco Compound # E1072

70 Durometer, Off-White, FDA + Peroxide Cure 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 E1072 is Peroxide cured and is compliant to FDA 21 CFR 177.2600.

Features:

- FDA compliant
- 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 255° F (-54 to 125° C)

Specification:

ASTM D2000 M2BA708 A14 B13 F19

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	D2000 Specification Requirements	Typical Test Results
Hardness, Shore A	70 +/- 5	68
Color	Off-White	Off-White
Tensile Strength, MPa (psi)	8.0 (1160)	8.8 (1276)
Elongation, %	200	468
Specific Gravity	-----	1.35

This information is to the best of our knowledge accurate and reliable. However, Marco Rubber makes no warranty, expressed or implied, that parts manufactured from this material will perform satisfactorily in the customer's application. It's the customer's responsibility to evaluate parts prior to use.

HEAT RESISTANCE – A26, ASTM D 865 (70 hrs. @ 100°C)	D2000 Specification Requirements	Typical Test Results
Hardness Change, points, max.	+/-15	+2
Tensile Strength Change, %, max.	+/-30	-1
Ultimate Elongation Change, %, max.	-50	-30

COMPRESSION SET – B36, ASTM D 395 Method B (22 hrs. @ 70°C)	D2000 Specification Requirements	Typical Test Results
Permanent Set, %, max.	25	21

LOW TEMPERATURE RESISTANCE – F19, ASTM D 2137 Method A, 9.3.2 (3 min. @ -55°C)	D2000 Specification Requirements	Typical Test Results
Brittleness	Non-Brittle	Non-Brittle

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