



Marco Compound # E1117

70 Durometer, Blue, FDA Compliant 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, "Rubber Articles Intended for Repeated Use"
- 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 M8BA703 A14 B13 F19

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	D2000 Specification Requirements	Typical Test Results
Hardness, Shore A	70 +/- 5	72
Color	--	Blue
Tensile Strength, MPa (psi)	3.0 (435)	4.7 (681)
Ultimate Elongation , %, min.	150	553
Specific Gravity	Report	1.38

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 – A14, ASTM D 865 (70 hrs. @ 100°C)	D2000 Specification Requirements	Typical Test Results
Hardness Change, points, max.	+/-15	+3
Tensile Strength Change, %, max.	+/-30	+0
Ultimate Elongation Change, %, max.	-50	-18

COMPRESSION SET PILED - D395 method B, (22 hrs. @ 70°C)	D2000 Specification Requirements	Typical Test Results
Permanent Set, Percentage of original deflection. Max.	25	22

LOW TEMPERATURE RESISTANCE – F19, ASTM D 2137	D2000 Specification Requirements	Typical Test Results
(Non-brittle after 3 min. @ -55°C)	Non-Brittle	Passed

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.