

Marco Compound # E1080

70 Durometer, Black, FDA, 3-A & USP Class VI EPDM Technical Datasheet

Common Names:

Ethylene-Propylene (EP, EPDM)

General Description:

EPDM rubber (ethylene propylene terpolymer) is an elastomer which is characterized by wide range of applications and good chemical resistance as well as excellent resistance to hot water and steam. Compound E1080 is suitable for use in all food contact applications including dry, aqueous and fatty media.

Features:

- FDA compliant – extraction tested to CFR21, 177.2600 (e,f)
- USP Class VI
- 3-A Sanitary Standards 18-03 Class 2 compliant
- Good heat and compression resistance.
- Free from animal derivatives (ADI)



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:

-40 to 300° F (-40 to 150° C)

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	Typical Test Results
Hardness, Shore A (ASTM D2240)	70
Color	Black
Tensile Strength, psi (ASTM D412)	1655
Ultimate Elongation, % (ASTM D412)	395
COMPRESSION SET (ASTM D395)	
22 hrs. @ 257° F	16.5%
120 hrs @ 266° F	22%
672 hrs @ 266° F	31%
Specific Gravity (ASTM D297)	0.85

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.