Request a Quote

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Marco Compound # V1094
60 Durometer, Black, FDA Compliant FKM
Technical Datasheet

Common Names:
FKM, Fluoropolymer, Fluorel®, Viton®,

General Description:
FKM material is widely used in chemical, automotive, aerospace and industrial applications. These compounds offer excellent chemical and temperature resistance. Marco compound V1094 is a 60 durometer FDA compliant formulation. There are many additional specialty compounds based on A, B, F, GLT, GFLT, LTFE and ETP polymer types. Please contact engineering@marcorubber.com for assistance in selecting a specialized compound when increased resistance to temperature, chemicals, or physical properties is required.

Features:
- FDA compliant
- High temperature resistance.
- Excellent resistance to acids, fuels, mineral oils, greases, aliphatic, aromatic and chlorinated hydrocarbons, non-flammable hydraulic fluids (HFD) and many organic solvents and chemicals.
- Excellent resistance to aging and ozone.
- Low gas permeability, low compression set.

Limitations:
- Steam, hot water, polar solvents, low molecular weight organic solvents and glycol-based brake fluids.

Service Temperature:
-15 to 400° F
(Additional compounds may be available with expanded temperature ranges).

Specification:
ASTM 2000 M2HK607 A1-10 B38 EF31

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	ASTM D2000 Requirements	Typical Test Results
Hardness, Shore A	60 +/- 5	56
Color	Black	Black
Tensile Strength, MPa (psi)	7.0 (1015) min.	(7.1) 1030
Ultimate Elongation, %	200 min.	269
Specific Gravity	-----	1.831

HEAT RESISTANCE – A1-10, ASTM D 573 (70 hrs. @ 250°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points	+10 (max)	+0
Tensile Strength Change, %	-25 (max)	+1
Ultimate Elongation Change, %	-25 (max)	-6

COMPRESSION SET – B37, ASTM D 395 Method B (22 hrs. @ 200°C)	**ASTM D2000 Requirements**	**Typical Test Results**
Permanent Set, %	50 (max)	14

FLUID RESISTANCE – ASTM Fuel C – EF31, ASTM D 471(70 hrs. @ 23°C)	**ASTM D2000 Requirements**	**Typical Test Results**
Hardness Change, points	+/- 5	-4
Tensile Strength Change, %	-25 (max)	-25
Ultimate Elongation Change, %	-20 (max)	-8
Volume Change, %	0 to + 10	+5