



Marco Compound # V1214

65 Durometer, Black, Commercial Grade FKM Type B

Technical Datasheet

Common Names:

FKM, Fluoropolymer, Fluorel®, Viton®,

General Description:

FKM compounds are widely used in chemical, automotive, aerospace and industrial applications. These compounds offer excellent chemical and temperature resistance. Marco compound V1214 is a B Type FKM which offers increased hydrocarbon and fuel resistance over standard FKM. 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:

- Type B Polymer
- 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, amines, polar solvents, low molecular weight organic solvents and glycol-based brake fluids.

Service Temperature:

-15 to 450° F (-26 to 230° C)

PHYSICAL PROPERTIES

ORIGINAL PROPERTIES	Typical Test Results
Hardness, Shore A, ASTM D412	65
Color	Black
Tensile Strength, psi, ASTM D412	1,700
Ultimate Elongation, %, ASTM D412	380
Modulus @ 100%, psi, ASTM D412	310
Compression Set, %, ASTM D395 22 hrs. @ RT	35
Specific Gravity	1.86

HEAT RESISTANCE – A1-10, ASTM D 573 (70 hrs. @ 250°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, Shore A, ASTM D2240	+10 (max)	+1
Tensile Strength Change, %, ASTM D412	-25 (max)	-5
Ultimate Elongation Change, %, ASTM D412	-25 (max)	+19

COMPRESSION SET – B37, ASTM D 395 Method B (22 hrs. @ 175°C)	ASTM D2000 Requirements	Typical Test Results
Permanent Set %	30 (max)	17

FLUID RESISTANCE – ASTM Fuel C – EF31, ASTM D 471(70 hrs. @ 23°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, Shore A, ASTM D2240	+/- 5	-2
Tensile Strength Change, %, ASTM D412	-25 (max)	-2
Ultimate Elongation Change, %, ASTM D412	-20 (max)	+22
Volume Change, %, ASTM D471	0 to + 10	+2

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Fluorel® is a registered trademark of Dyneon.