Request a Quote

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Marco Compound # V1185

75 Durometer Black, FKM Meets MIL-R-83248C Physicals
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. 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:
- Meets Mil-R-83248C Physical Properties
- 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 500ºF

Physical Properties Meet Specification:
MIL-R-83248C Type 1 Class 1

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	Requirements	Typical Test Results
Hardness, Shore A	75 +/- 5	72
Color	Black	Black
Tensile Strength, psi (MPa)	1,400 min. (9.65)	1,522 (10.5)
Ultimate Elongation, %	125 min.	253
Specific Gravity, ASTM D297		1.91

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HEAT RESISTANCE – AIR AGING ASTM D573 (70 hrs. @ 518ºF)	Requirements	Typical Test Results
Hardness Change, Shore A, ASTM D2240	-5 to +10	+1
Tensile Strength Change, %, ASTM D1414	-35 (max)	+13
Ultimate Elongation Change, %, ASTM D1414	-15 (max)	-1
Weight Loss, %, ASTM D297	-10 max	-8

COMPRESSION SET – ASTM D 395 Method B and ASTM D1414 (22 hrs. @ 392ºC)	Requirements	Typical Test Results
Permanent Set %	15 (max)	9

FUEL B Immersion - ASTM D471 and ASTM D1414 (70 hrs. @ 75ºF)	Requirements	Typical Test Results
Hardness Change, Shore A, ASTM D2240	+/- 5	-3
Tensile Strength Change, %, ASTM D1414	-20 (max)	-16
Ultimate Elongation Change, %, ASTM D1414	-20 (max)	+3
Volume Change, %, ASTM D471	0 to + 10	+3

Viton® is a registered trademark of Dupont.

Fluorel® is a registered trademark of Dyneon.