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(800) 775-6525 Fax: (800) 421-2923
engineering@marcorubber.com
www.marcorubber.com

Marco Compound # V1154
90 Durometer, Black, GFLT Type FKM
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:
- Low temperature capabilities
- 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.

Cure System:
Peroxide

Service Temperature:
-25° C to +204° C (-13° to 400° F)

PHYSICAL PROPERTIES

ORIGINAL PROPERTIES	Typical Test Results
Hardness, Shore A	87
Color	Black
Tensile Strength, MPa (psi)	13.1 (1904)
Modulus @ 100% Elongation, MPa (psi)	11.6 (1681)
Ultimate Elongation, %	112
Specific Gravity	1.86
Brittleness Temperature, °C	-25

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HEAT AGING – (70 hrs. @ 250°C)	**Typical Test Results**
Hardness Change, Shore A	-0
Tensile Strength Change, %	-7.7
Ultimate Elongation Change, %	-12.5

HEAT AGING – (70 hrs. @ 275°C)	**Typical Test Results**
Hardness Change, Shore A	-0
Tensile Strength Change, %	-14.8
Ultimate Elongation Change, %	-4.5

COMPRESSION SET - % Permanent set	**Typical Test Results**
22 hrs @ 23°C	29.3
22 hrs @ 175°C	16.0
22 hrs @ 200°C	23.5

IMMERSION, DISTILLED WATER– (70 Hours @ 100°C)	**Typical Test Results**
Hardness Change, Shore A	-5
Volume Change, %	+3.0

IMMERSION, ASTM OIL #1 (IRM 901)– (70 Hours @ 150°C)	**Typical Test Results**
Hardness Change, Shore A	-0
Tensile Strength Change, %	+2.4
Ultimate Elongation Change, %	+0.9
Volume Change, %	-0.4

IMMERSION, ASTM OIL #3 (IRM 903)– (70 Hours @ 150°C)	**Typical Test Results**
Hardness Change, Shore A	-1
Tensile Strength Change, %	-2.2
Ultimate Elongation Change, %	-9.8
Volume Change, %	+0.8

IMMERSION, FUEL C OIL– (70 Hours @ Room Temperature)	**Typical Test Results**
Hardness Change, Shore A	-2
Tensile Strength Change, %	+14.0
Ultimate Elongation Change, %	-3.6
Volume Change, %	+2.4

IMMERSION, SERVICE FLUID #101 – (70 Hours @ 200° C)	**Typical Test Results**
Hardness Change, Shore A	-5
Tensile Strength Change, %	-6.3
Ultimate Elongation Change, %	+8.0
Volume Change, %	+5.7

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IMMERSION FLUID #2, EHEND 7700 – (70 Hours @ 200° C)	**Specification Requirements**	**Typical Test Results**
Hardness Change, Shore A	---	-13
Tensile Strength Change, %	---	-14
Ultimate Elongation Change, %	---	+16
Volume Change, %	---	+18

Viton® is a registered trademark of Dupont.

Fluorel® is a registered trademark of Dyneon.

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