Request a Quote

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

Marco Compound # V1184
70 Durometer, Black, GLT 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:
-40° C to +204° C (-40° to 400° F)

Specifications:
ASTM D2000 M2HK714 A1-10 B37 B38 C12 EF31 EO78

PHYSICAL PROPERTIES

ORIGINAL PROPERTIES Press Cure @ 170°C X 10 Minutes, Post Cure @ 230°C X 24 Hours	Specification Requirements	Typical Test Results
Hardness, Shore A	70 +/- 5	70
Color	Black	Black
Tensile Strength, MPa (psi)	14.0 (2030) min	14.9 (2160)
Ultimate Elongation, %	175 min	247
Specific Gravity	-	1.82

Request a Quote

HEAT AGING – (70 hrs. @ 270°C)	Specification Requirements	Typical Test Results
Hardness Change, Shore A	+10 max	+5
Tensile Strength Change, %	-25 max	-20
Ultimate Elongation Change, %	-25 max	-21
Volume Change, %	--	-2

COMPRESSION SET – Heat Aging @ 175°C X 70 Hours	Specification Requirements	Typical Test Results
% Permanent set - Heat Aging @ 175°C X 22 Hours	50 max	25
% Permanent set - Heat Aging @ 200°C X 70 Hours	50 max	36

FLUID RESISTANCE, NO. 101 OIL – (70 Hours @ 200° C)	Specification Requirements	Typical Test Results
Hardness Change, Shore A	-15 to + 5	-6
Tensile Strength Change, %	-40 max	-2
Ultimate Elongation Change, %	-20 max	-5
Volume Change, %	0 to + 15	+8

FUEL C OIL IMMERSION – (70 Hours @ 23°C)	Specification Requirements	Typical Test Results
Hardness Change, Shore A	+/- 5	-2
Tensile Strength Change, %	-25 max	-16
Ultimate Elongation Change, %	-20 max	-5
Volume Change, %	0 to + 10	+5

FLUID RESISTANCE, NO. 2 BHEND 7700 – (70 Hours @ 200° C)	Specification Requirements	Typical Test Results
Hardness Change, Shore A	---	-4
Tensile Strength Change, %	---	-6
Ultimate Elongation Change, %	---	-10
Volume Change, %	---	-9

LOW TEMPERATURE FLEXIBILITY ASTM D1329	Specification Requirements	Typical Test Results
TIME: 3 MIN AT -40° C	PASS	PASS

Viton® is a registered trademark of Dupont.

Fluorel® is a registered trademark of Dyneon.