

Marco Compound # V1183 60 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° to 437° F

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	60 +/- 5	61
Color	Black	Black
Tensile Strength, MPa (psi)	15.0 (2175) min	17.5 (2538)
Ultimate Elongation, %	250 min	305
Specific Gravity	-	1.91

This information is to the best of our knowledge accurate and reliable. However, Marco Rubber makes no warranty, expressed or implied, that parts manufactured from this material will perform satisfactorily in the customer's application. It's the customer's responsibility to evaluate parts prior to use.

HEAT AGING – (70 hrs. @ 250°C)	Specification Requirements	Typical Test Results
Hardness Change, Shore A	0 to +10 max	+1
Tensile Strength Change, %	-25 max	-5
Ultimate Elongation Change, %	-25 max	+25

COMPRESSION SET – Heat Aging @ 250°C X 70 Hours	Specification Requirements	Typical Test Results
% Permanent set	50 max	25

FUEL C OIL IMMERSION – (70 Hours @ Room Temperature)	Specification Requirements	Typical Test Results
Hardness Change, Shore A	+/- 5	-1
Tensile Strength Change, %	-25 max	-21
Ultimate Elongation Change, %	-20 max	-17
Volume Change, %	0 to + 10	+8

LOW TEMPERATURE FLEXIBILITY	Specification Requirements	Typical Test Results
TR-10 (°C)	---	-30

Viton® is a registered trademark of Dupont.

Fluorel® is a registered trademark of Dyneon.