



Marco Compound # V1038 75 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 225°C (-40° to 437°F)

(Additional compounds may be available with expanded temperature ranges).

Specification:

ASTM D2000 M2HK810 A1-10 B37 EF31 F16

PHYSICAL PROPERTIES

ORIGINAL PROPERTIES	Specification Requirements	Typical Test Results
Hardness, Shore A	75 +/- 5	79
Color	Black	Black
Tensile Strength, MPa	10.0 min	17.5
Ultimate Elongation, %	175 min	230
Specific Gravity	----	1.789

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	Test Results
Hardness Change, Shore A	± 5	-5
Tensile Strength Change, %	-25 max.	-24
Ultimate Elongation Change, %	-20 max.	-20
Volume Change, %	0 to 10 max.	+5

COMPRESSION SET -22 Hours @ 175°C	Specification Requirements	Typical Test Results
Permanent set, %	50 max	13

FUEL C OIL IMMERSION – 70 Hours @ 23°C	Specification Requirements	Typical Test Results
Hardness Change, Shore A	+/- 5	-5
Tensile Strength Change, %	-25 max	-24
Ultimate Elongation Change, %	-20 max	-20
Volume Change, %	0 to + 10	+5

LOW TEMPERATURE BRITTLENESS – 3 Minutes @ -35°C	Specification Requirements	Typical Test Results
Brittleness Test	NON-BRITTLE	NON-BRITTLE

Date: 2015-9-29

Viton® is a registered trademark of Dupont.

Fluorel® is a registered trademark of Dyneon.