

Marco Compound # V1010

60 Durometer, Black, Commercial grade 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. Marco compound V1010 is a 60 durometer commercial grade compound. There are many additional specialty compounds based on A, B, F, GLT, GFLT, LTFE and ETP polymer types. Please contact sales@marcorubber.com for assistance in selecting a specialized compound when increased resistance to temperature, chemicals, or physical properties is required.

Features:

- 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.

Cure System:

Bisphenol

Service Temperature:

-15 to 437°F (-26 to 225°C)

(Additional compounds available with expanded temperature ranges).

Specification:

ASTM 2000 M2HK607 A1-10 B37 EF31

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	Requirements	Typical Test Results
Hardness, Shore A	60+/- 5	60
Color	Black	Black
Tensile Strength, MPa	7.0	7.1
Elongation, %	200	285
Specific Gravity	-----	1.801

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 – A1-10, ASTM D573 (70 hrs. @ 250°C)	Requirements	Typical Test Results
Hardness Change, Shore A	+10 (max)	+2
Tensile Strength Change, %	-25 (max)	+24
Elongation Change, %	-25 (max)	-2

COMPRESSION SET – B37, ASTM D471 (22 hrs @ 175°C)	Requirements	Typical Test Results
Permanent Set, %	50	9

FLUID RESISTENCE –FUEL C – EF31, ASTM D471 (70 hrs. @ 23°C)	Requirements	Typical Test Results
Hardness Change, Shore A	+/- 5	-4
Tensile Strength Change, %	-25 (max)	-2
Ultimate Elongation Change, %	-20 (max)	+13
Volume Change, %	0 to + 10	+4

Date: 2016-10-3

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Fluorel® is a registered trademark of Dyneon.