Request a Quote

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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. V1010 is Marco's commercial grade compound. 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:
- 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
(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

HEAT AGING –(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 – Press cure @ 170 Degrees C x 20 Min Post cure @ 230 Degree C x 24 hours	**Requirements**	**Typical Test Results**
Heat aging @ 175 Degree C x 22 Hours , %	50	9

FLUID RESISTENCE –Fuel C – Oil immersion @ RT x 70 hrs.	**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

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Fluorel® is a registered trademark of Dyneon.