Request a Quote

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MARCO COMPOUND # V1060
85 Durometer, Black, Conductive 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. V1060 is Marco's specialty 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:
- Very conductive Fluorocarbon. Nanotubes filled (Typical Volume Resistivity of less than 5 ohm-cm).
- EMI shielding.
- Static Dissipative.
- 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 400°F
(Additional compounds may be available with expanded temperature ranges).

Specification:
ASTM 2000 M2HK914 A1-10 B38 C12 EF31 F15 Z1

TYPICAL PHYSICAL PROPERTIES

ORIGINAL PROPERTIES	ASTM D2000 Requirements	Typical Test Results
Hardness, Shore A (Z1)	85 +/- 5	86
Color	Black	Black
Tensile Strength, MPA, (psi)	10 (1,450)	17.36 (2,500)
Ultimate Elongation, %	100 Min.	155
Volume Resistivity. ohm-cm		3

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HEAT RESISTANCE – A1-10, ASTM D 573 (70 hrs. @ 250°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points	+10 max.	+3
Tensile Strength Change, %	-25 max.	-8
Ultimate Elongation Change, %	-25 max.	-4

COMPRESSION SET – B38, ASTM D 395 Method B (22 hrs. @ 200°C)	ASTM D2000 Requirements	Typical Test Results
Permanent Set %	50 max.	28

FLUID RESISTANCE – ASTM Fuel C – EF31, ASTM D 471(70 hrs. @ 23°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points	+/- 10	-1
Tensile Strength Change, %	-25 max.	-4.6
Ultimate Elongation Change, %	-20 max.	-4.5
Volume Change, %	0 to 10	+1.5

LOW TEMPERATURE RESISTANCE	ASTM D2000 Requirements	Typical Test Results
Brittleness @ -25° C	Non-Brittle	Pass