Request a Quote

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Marco Compound #V1206
75 Durometer, Black, Antistatic 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 V1206 is formulated with a conductive carbon filler to offer surface resistance in the antistatic range. 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:
- Conductive carbon filler offers surface resistance in the antistatic range
- 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 M2HK810 A1-10 B37 EF31 Z1 (Z1 = Conductive Filler)

TYPICAL PHYSICAL PROPERTIES

ORIGINAL PROPERTIES	ASTM Requirements	Typical Test Results
Hardness, Shore A	75 ± 5	79
Color	Black	Black
Tensile Strength, MPa (psi)	10 (1450)	10.3 (1494)
Ultimate Elongation, %	150	161
Specific Gravity	-----	1.786

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HEAT RESISTANCE – ASTM D 573 (70 hrs. @ 250°C)	**ASTM Requirements**	**Typical Test Results**
Hardness Change, points	+10	+4
Tensile Strength Change, %	-25	+12
Ultimate Elongation Change, %	-25	-25

COMPRESSION SET – ASTM D 395 Method B (22 hrs. @ 175°C)	**ASTM Requirements**	**Typical Test Results**
Permanent Set %	50	12

FLUID RESISTANCE – ASTM Fuel C – ASTM D 471 (70 hrs. @ 23°C)	**ASTM Requirements**	**Typical Test Results**
Hardness Change, points	± 5	-1
Tensile Strength Change, %	-25	-8
Ultimate Elongation Change, %	-20	-10
Volume Change, %	0 to +10	+3

SURFACE RESISTANCE	**ASTM Requirements**	**Typical Test Results**
Surface Resistance, Ω	-----	1.0×10^{7} to 1.0×10^{9}

Viton® is a registered trademark of Dupont.

Fluorel® is a registered trademark of Dyneon.