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Marco Compound # V1006
FKM 75 Durometer, Black, FDA Compliant
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. V1006 is Marco's FDA compliant 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:
- FDA compliant
- 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.

Service Temperature:
-15 to 400° F
(Additional compounds may be available with expanded temperature ranges).

Specification:
ASTM 2000 M2HK810 A1-10 B37 EF31 F15

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	ASTM D2000 Requirements	Typical Test Results
Hardness, Shore A	75 +/- 5	77
Color	Black	Black
Tensile Strength, MPa (psi)	10 (1,450) min.	(12.1) 1755
Ultimate Elongation, %	150 Min.	160
Specific Gravity	-----	1.811

HEAT RESISTANCE – A1-10, ASTM D 573 (70 hrs. @ 250°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points	+10 (max)	+1
Tensile Strength Change, %	-25 (max)	-3
Ultimate Elongation Change, %	-25 (max)	-8

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COMPRESSION SET – B37, ASTM D 395 Method B (22 hrs. @ 175°C)	**ASTM D2000 Requirements**	**Typical Test Results**
Permanent Set, %	50 (max)	7

FLUID RESISTANCE – ASTM Fuel C – EF31, ASTM D 471(70 hrs. @ 23°C)	**ASTM D2000 Requirements**	**Typical Test Results**
Hardness Change, points	+/- 5	-4
Tensile Strength Change, %	-25 (max)	-24
Ultimate Elongation Change, %	-20 (max)	-19
Volume Change, %	0 to + 10	+4

LOW TEMPERATURE RESISTANCE – F15, ASTM D 2137 Method A, 9.3.2	**ASTM D2000 Requirements**	**Typical Test Results**
Non-brittle after 3 min. @ -25°C	Pass	Pass

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Fluorel® is a registered trademark of Dyneon.