



## Marco Compound # V1003 75 Durometer, Brown 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. Brown Viton can provide improved resistance to oxidative environments and reactive plasmas. There are many additional specialty compounds based on A, B, F, GLT, GFLT, LTFE and ETP polymer types. Please contact [engineering@marcorubber.com](mailto: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 may be available with expanded temperature ranges).

### **Specification:**

ASTM 2000 M4HK710 A1-10 B37 EF31 Z1 Z2

## PHYSICAL PROPERTIES

ORIGINAL PROPERTIES	ASTM D2000 Requirements	Typical Test Results
Hardness, Shore A, ASTM D2240 (Z1 = 75+/-5)	75 +/- 5	75
Color (Z2 = Brown)	Brown	Brown
Tensile Strength, psi, ASTM D412	1,450min.	1,650
Ultimate Elongation, %, ASTM D412	150 Min.	185

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.

<b>HEAT RESISTANCE – A1-10, ASTM D 573 (70 hrs. @ 250°C)</b>	<b>ASTM D2000 Requirements</b>	<b>Typical Test Results</b>
Hardness Change, Shore A, ASTM D2240	+10 (max)	+5
Tensile Strength Change, %, ASTM D412	-25 (max)	-2
Ultimate Elongation Change, %, ASTM D412	-25 (max)	-16

<b>COMPRESSION SET – B37, ASTM D 395 Method B (22 hrs. @ 200°C)</b>	<b>ASTM D2000 Requirements</b>	<b>Typical Test Results</b>
Permanent Set %	50 (max)	15

<b>FLUID RESISTANCE – ASTM Fuel C – EF31, ASTM D 471(70 hrs. @ 23°C)</b>	<b>ASTM D2000 Requirements</b>	<b>Typical Test Results</b>
Hardness Change, Shore A, ASTM D2240	+/- 5	-3
Tensile Strength Change, %, ASTM D412	-25 (max)	-18
Ultimate Elongation Change, %, ASTM D412	-20 (max)	-13
Volume Change, %, ASTM D471	0 to + 10	+ 4

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Fluorel® is a registered trademark of Dyneon.