Request a Quote

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Marco Compound # V1039
FKM 75 Durometer, White, 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. V1039 is Marco's white FDA & USP Class VI compliant compound. Parts made from this material are processed and packaged in a clean room. There are many additional specialty compounds based on A, B, F, GLT, GFLT, LTFE and ETP polymer types. Please contact sales@marcorubber.com for assistance in selecting a specialized compound when increased resistance to temperature, chemicals, or physical properties is required.

Features:
- FDA and USP Class VI compliant
- Clean room manufacturing and packaging
- 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 437°F (-26 to 225°C)
(Additional compounds may be available with expanded temperature ranges).

Specification:

ASTM 2000 M2HK707 A1-10 B37 EF31

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	ASTM D2000 Requirements	Typical Test Results
Hardness, Shore A	75 +/- 5	74
Color	White	White
Tensile Strength, MPa	7.0	9.0
Ultimate Elongation, %	175	181

HEAT RESISTANCE (70 hrs. @ 250°C)	**ASTM D2000 Requirements**	**Typical Test Results**
Hardness Change, points	+10 (max)	+1
Tensile Strength Change, %	-25 (max)	-4
Ultimate Elongation Change, %	-25 (max)	-13

COMPRESSION SET (22 hrs. @ 175°C)	**ASTM D2000 Requirements**	**Typical Test Results**
Permanent Set %	50 (max)	4

FLUID RESISTANCE –Fuel C –(70 hrs. @ Room Temp)	**ASTM D2000 Requirements**	**Typical Test Results**
Hardness Change, points	+/- 5	-3
Tensile Strength Change, %	-25 (max)	-25
Ultimate Elongation Change, %	-20 (max)	-0.5
Volume Change, %	0 to + 10	+5

Date: 2016-7-1

Viton® is a registered trademark of Dupont.

Fluorel® is a registered trademark of Dyneon.