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Marco Compound # V1069

60 Durometer, Black, FDA & 3-A Sanitary Compliant 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 V1069 is FDA and 3-A Sanitary compliant compound for use in food contact applications. 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
- 3-A Sanitary standards 18-03 Class I, II, III & IV
- 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:
2 HK 610 A1-10 B37 B38 EO78 F15
4 HK 610 A1-11 B38 EO78
6 HK 610 A1-10 A1-11 B31 EO88 F15

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	Typical Test Results
Hardness, Shore A	60 ± 5
Color	Black
Tensile Strength, psi	1404
Ultimate Elongation, %	230
Specific Gravity	1.84
Brittleness Temperature	-15°F

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COMPRESSION SET – ASTM D 395 Method B	**Typical Test Results**
Plied: 22 hrs @ 73°F (23°C), %	9.4
Plied: 22 hrs @ 347°F (175°C), %	4.6
Plied: 22 hrs @ 392°F (200°C), %	8.6

SERVICE FLUID 101 – 70 hrs. @ 392°F (200°C)	**Typical Test Results**
Hardness Change, points	-6
Tensile Strength Change, %	-23
Ultimate Elongation Change, %	+16
Volume Change, %	+10

STAUFFER BLEND 7700 – 70 hrs. @ 392°F (200°C)	**Typical Test Results**
Hardness Change, points	-11
Tensile Strength Change, %	-30
Ultimate Elongation Change, %	+5.8
Volume Change, %	+18

Viton® is a registered trademark of Dupont.

Fluorel® is a registered trademark of Dyneon.