Request a Quote

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Marco Compound # V1025
70 Durometer, Black, GF Type 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. 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:
- Highly fluorinated
- 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, amines, polar solvents, low molecular weight organic solvents and glycol-based brake fluids.

Cure System:
Peroxide

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

Specification:
ASTM D2000 M2HK710 A1-10 B37 EF31 Z1 (Z1=GF-600S)

PHYSICAL PROPERTIES

ORIGINAL PROPERTIES	Specification Requirements	Typical Test Results
Hardness, Shore A, ASTM D2240	70 +/- 5	71
Color	Black	Black
Tensile Strength, MPa (psi), ASTM D412	10 (1450) min.	11.2 (1625)
Ultimate Elongation, %, ASTM D412	175 Min.	427
Specific Gravity		1.865

HEAT RESISTANCE – ASTM D 573 (70 hrs. @ 482°F)	Specification Requirements	Typical Test Results
Hardness Change, Shore A, ASTM D2240	+10 (max)	+2
Tensile Strength Change, %, ASTM D412	-25 (max)	+53
Ultimate Elongation Change, %, ASTM D412	-25 (max)	+20

COMPRESSION SET – B38, ASTM D 395 Method B and ASTM D1414	Specification Requirements	Typical Test Results
% Permanent set , 22 hrs. @ 347° F	50 (max)	17

FUEL C Oil Immersion – ASTM D 471 and ASTM D1414 (70 hrs. @ 73°F)	Specification Requirements	Typical Test Results
Hardness Change, Shore A, ASTM D2240	+/- 5	+1
Tensile Strength Change, %, ASTM D412	-25 (max)	-24
Ultimate Elongation Change, %, ASTM D412	-20 (max)	-9
Volume Change, %, ASTM D471	0 to + 10	+2

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Fluorel® is a registered trademark of Dyneon.