Request a Quote

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Marco Compound # V1204
75 Durometer, Brown, Peroxide Cured 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. Marco compound V1204 is a GF type FKM that offers improved fuel resistance over standard formulations. 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
- Improved fuel resistance
- High temperature resistance
- Good resistance to steam and hot water
- 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:
- Amines, polar solvents, low molecular weight organic solvents and glycol-based brake fluids.

Cure System:
Peroxide

Service Temperature:
-15 to 450° F

Specification:
ASTM D2000 M2HK814 A1-10 B37 EF31 Z1 Z2 (Z1=GF GRADE, Z2 = METHANOL IMMERSION)

PHYSICAL PROPERTIES

ORIGINAL PROPERTIES	Specification Requirements	Typical Test Results
Hardness, Shore A, ASTM D2240	75 +/- 5	79
Color	Brown	Brown
Tensile Strength, MPa (psi), ASTM D412	14 (2,030) min.	14.2 (2,060)
Ultimate Elongation, %, ASTM D412	150 Min.	177
Specific Gravity	-----	2.302

HEAT RESISTANCE – A1-10, ASTM D 573 (70 hrs. @ 250°C)	**Specification Requirements**	**Typical Test Results**
Hardness Change, Shore A, ASTM D2240	+10 (max)	+0
Tensile Strength Change, %, ASTM D412	-25 (max)	-7
Ultimate Elongation Change, %, ASTM D412	-25 (max)	-7

COMPRESSION SET – B37, ASTM D 395 Method B and ASTM D1414	**Specification Requirements**	**Typical Test Results**
% Permanent set , 22 hrs. @ 175° C	50 (max)	12

FUEL C Oil Immersion – EF31, ASTM D 471 (70 hrs. @ 23°C)	**Specification Requirements**	**Typical Test Results**
Hardness Change, Shore A, ASTM D2240	+/- 5	-1
Tensile Strength Change, %, ASTM D412	-25 (max)	-12
Ultimate Elongation Change, %, ASTM D412	-20 (max)	-3
Volume Change, %, ASTM D471	0 to + 10	+1

METHANOL Immersion – Z2, ASTM D 471 (70 hrs. @ 23°C)	**Specification Requirements**	**Typical Test Results**
Hardness Change, Shore A, ASTM D2240	-----	-2
Tensile Strength Change, %, ASTM D412	-----	-7
Ultimate Elongation Change, %, ASTM D412	-----	+3
Volume Change, %, ASTM D471	-----	+2