Request a Quote

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Marco Compound #V1216
60 Durometer, Black, FKM (Viton®) ETP
Technical Datasheet

Common Names:
Viton® ETP, Viton Extreme

General Description:
FKM compounds are widely used in chemical, automotive, aerospace and industrial applications. These compounds offer excellent chemical and temperature resistance. This compound is a 60 durometer ETP type FKM material which offers enhanced chemical resistance. There are many additional specialty compounds based on A, B, F, GLT, GFLT and LTFE 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:
- High temperature resistance.
- Added resistance to low molecular weight carbonyls, amines, steam, hot water and caustic bases.
- 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:
- Polar solvents, and glycol-based brake fluids.

Cure System:
Peroxide

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

Specification:
ASTM D2000 M2HK610 A1-10 B37 B38 EO78 EO88

Typical Physical Properties

Material Property	Requirement	Typical Value
Color	Black	Black
Material Type	FKM, Viton ETP	FKM, Viton ETP
Hardness, Shore A	60 ± 5	61
Tensile Strength, psi	1450 min.	1880
Elongation, %	200 min.	355
Specific Gravity	Report	1.91

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HEAT RESISTANCE – A1-10, ASTM D 573 (70 hrs. @ 250°C)	**ASTM D2000 Requirements**	**Typical Test Results**
Hardness Change, Shore A, ASTM D2240	+10 (max)	+1
Tensile Strength Change, %, ASTM D412	-25 (max)	+3
Ultimate Elongation Change, %, ASTM D412	-25 (max)	+3

COMPRESSION SET – B37, ASTM D 395 Method B (22 hrs. @ 175°C)	**ASTM D2000 Requirements**	**Typical Test Results**
Permanent Set %	50 (max)	37

COMPRESSION SET – B38, ASTM D 395 Method B (22 hrs. @ 200°C)	**ASTM D2000 Requirements**	**Typical Test Results**
Permanent Set %	50 (max)	43

FLUID RESISTANCE –ASTM #101 Oil – EO78, ASTM D 471 (70 hrs. @ 200°C)	**ASTM D2000 Requirements**	**Typical Test Results**
Hardness Change, Shore A, ASTM D2240	-15 to + 5	+0
Tensile Strength Change, %, ASTM D412	-40 (max)	+5
Ultimate Elongation Change, %, ASTM D412	-20 (max)	+5
Volume Change, %, ASTM D412	0 to + 15	+11.5

FLUID RESISTANCE – Hatco 7700 Oil – EO88, ASTM D 471 (70 hrs. @ 200°C)	**ASTM D2000 Requirements**	**Typical Test Results**
Hardness Change, Shore A, ASTM D2240	-15 to + 5	--10
Tensile Strength Change, %, ASTM D412	-40 (max)	-7
Ultimate Elongation Change, %, ASTM D412	-20 (max)	-1
Volume Change, %, ASTM D412	0 to + 15	+22.5

Date: 2017-1-18