Request a Quote

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Marco Compound # V1218
80 Durometer, Black, Specialty Compound 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. Marco compound V1218 is an 80 durometer ETP type FKM which offers greatly enhanced chemical resistance compared to standard FKM. 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:
- ETP Type FKM for enhanced chemical resistance
- 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)

Typical Physical Properties

PROPERTIES	Typical Test Results
Color	Black
Material Type	FKM, Viton ETP
Hardness, Shore A	80 ± 5
Tensile Strength, psi	1,863
Elongation, %	245

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COMPRESSION SET – ASTM D 395 Method B (22 hrs. @ 200°C)	**Typical Test Results**
Permanent Set %	27.5

HEAT RESISTANCE - ASTM D573 (500 hrs. @ 200°C)	**Typical Test Results**
Hardness Change, Shore A, ASTM D2240	-1
Tensile Strength Change, %, ASTM D412	-10
Ultimate Elongation Change, %, ASTM D412	+3.8

FLUID RESISTANCE – Water – ASTM D 471 (168 hrs. @ 100°C)	**Typical Test Results**
Volume Change, %	+4

FLUID RESISTANCE – MEK – ASTM D 471 (168 hrs. @ 23°C)	**Typical Test Results**
Tensile Strength Change, %	-11
Ultimate Elongation Change, %	+6
Volume Change, %	+4

FLUID RESISTANCE – Toluene – ASTM D 471 (168 hrs. @ 23°C)	**Typical Test Results**
Tensile Strength Change, %	-14
Ultimate Elongation Change, %	-8
Volume Change, %	+8.2

FLUID RESISTANCE – KOH – ASTM D 471 (168 hrs. @ 100°C)	**Typical Test Results**
Hardness Change, Shore A	-13
Tensile Strength Change, %	-32
Ultimate Elongation Change, %	-10
Volume Change, %	+18

Date: 2016-5-10

Viton® ETP is a Registered Trade name of DuPont.