Request a Quote

(800) 775-6525 Fax: (800) 421-2923
engineering@marcorubber.com
www.marcorubber.com

Marco Compound # V1111

75 Durometer, Yellow, Highly Fluorinated FKM Compound Viton® ETP
Technical Datasheet

Common Names:
Viton® ETP, Viton Extreme

General Description:
Viton ETP materials exhibit improved performance over standard FKM materials due to the highly fluorinated nature of the Polymer thus offering enhanced chemical resistance for the material, Viton ETP can be considered as a bridge between standard FKM materials and FFKM Perfluoroelastomer materials, FKM compounds are widely used in chemical, automotive, aerospace and industrial applications. These compounds offer excellent chemical and temperature resistance. V1020 is Marco's specialty grade compound. 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:
12 to 400°F
(Additional compounds may be available with expanded temperature ranges).

Typical Physical Properties

PROPERTIES	VALUE
Color	Yellow
Material Type	FKM, Viton ETP
Hardness, Shore A	78
Tensile Strength, psi	2,393
Elongation, %	170
Compression Set, %, 22 Hrs. @ 200°C	19
Compression Set, %, 70 Hrs. @ 200°C	42

Request a Quote

Ethyl Acetate, 168 hrs. @ 23°C Volume change, %	 +25
MEK (Ketone), 168 hrs. @ 23°C Volume change, %	 +25
45% Potassium Hydroxide, 70 hrs. @ 70°C Volume change, %	 +0.3
70% Nitric Acid, 70 hrs. @ 70°C Volume change, %	 +9.7
Water Immersion, 168 hrs. @ 100°C Volume change, %	 +1.7

HEAT RESISTANCE - ASTM D573 (168 hrs. @ 250°C)	Value
Hardness Change, Shore A, ASTM D2240	+3
Tensile Strength Change, %, ASTM D412	-32
Ultimate Elongation Change, %, ASTM D412	27
Weight loss, ASTM D297	1.0

COMPRESSION SET - ASTM D375 Method B	Value
Permanent Set, 22 hours at 200° C	19
Permanent Set, 70 hours at 200° C	42

Properties tested with AS568-214 size o-rings.

Viton® ETP is a Registered Trade name of DuPont.