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Marco Compound # V1020
75 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 V1020 is an ETP type FKM which offers enhanced solvent and general chemical resistance. There are many additional specialty compounds based on A, B, F, GLT, GFLT and LTFE polymer types. Please contact sales@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:
-6 to 437°F (-21 to 225°C)
(Additional compounds may be available with expanded temperature ranges).

Typical Physical Properties

PROPERTIES	VALUE
Color	Black
Material Type	FKM, Viton ETP
Hardness, Shore A	78
Tensile Strength, psi	1,776
Elongation, %	170
Compression Set, %, 22 Hrs. @ 200°C	19
Compression Set, %, 70 Hrs. @ 200°C	42

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CHEMICAL RESISTANCE – IMMERSION TESTING, ASTM D471	**Value**
Ethyl Acetate, 168 hrs. @ 23°C Volume change, %	+25
MEK (Ketone), 168 hrs. @ 23oC 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

Date: 2016-10-3

Viton® ETP is a Registered Trade name of DuPont.

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