V1020 MATERIAL SUMMARY

75 Durometer, Black, Specialty Compound Viton® ETP

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FKM compounds are widely used in chemical, automotive, aerospace and industrial applications. These compounds offer excellent chemical and temperature resistance. Marco Rubber stocks all USA standard Viton O-Rings sizes, thousands of metric Viton O-Ring and non-standard sizes.

ABOUT #V1020

V1020 is a 75A durometer, FKM Type ETP. FKM ETP is one of the most chemically resiliant FKM types available. Compare to Parker V1260-75.

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.
- Low gas permeability, low compression set.

APPLICATION EXAMPLES

- Strong basic applications
- Strong acidic applications
- Petroleum applications

ADDITIONAL INFORMATION

- Service Temperature of -6° to 437°F
- Cure System: Peroxide
- Spec: ASTM

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PHYSICAL PROPERTIES

PROPERTIES	ASTM Method	Typical Test Results
Color		Black
Material Type		FKM, Viton ETP
Hardness, Shore A	D2240	78
Tensile Strength, psi	D1414	1776
Elongation, %	D1414	170
Compression Set, %, 22 Hrs. @ 200°C	D1414	19
Compression Set, %, 70 Hrs. @ 200°C	D1414	42
Ethyl Acetate, 168 hrs. @ 23°C	ASTM Method	Typical Test Results
Volume change, %	D471	25
MEK (Ketone), 168 hrs. @ 23°C	ASTM Method	Typical Test Results
Volume change, %	D471	25
45% Potassium Hydroxide, 70 hrs. @ 70°C	ASTM Method	Typical Test Results
Volume change, %	D471	0.3
70% Nitric Acid, 70 hrs. @ 70°C	ASTM Method	Typical Test Results
Volume change, %	D471	9.7
Water Immersion, 168 hrs. @ 100°C	ASTM Method	Typical Test Results
Volume change, %	D471	1.7
HEAT RESISTANCE - ASTM D573 (168 hrs. @ 250°C)	ASTM Method	Typical Test Results
Hardness Change, Shore A	D2240	3
Tensile Strength Change, %	D412	-32
Ultimate Elongation Change, %	D412	27
Weight loss, %	D297	1