



Marco Compound # V1065

90 Durometer, Black, ETP Type FKM

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 V1065 is a 90 durometer ETP type FKM material which offers greatly increased chemical resistance over 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:

- 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 M2HK910 A1-10 B38 EO78

TYPICAL PHYSICAL PROPERTIES

ORIGINAL PROPERTIES	ASTM D2000 Requirements	Typical Test Results
Hardness, Shore A, ASTM D2240	90 +/- 5	86
Color	Black	Black
Tensile Strength, MPa (psi), per ASTM D412	10.0 (1450) min.	14.8 (2147)
Ultimate Elongation, %, per ASTM D412	100 Min.	208
Specific Gravity	-----	1.822

This information is to the best of our knowledge accurate and reliable. However, Marco Rubber makes no warranty, expressed or implied, that parts manufactured from this material will perform satisfactorily in the customer's application. It's the customer's responsibility to evaluate parts prior to use.

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)	-4
Ultimate Elongation Change, %, ASTM D412	-25 (max)	+5

COMPRESSION SET – B38, ASTM D 395 Method B (22 hrs. @ 200°C)	ASTM D2000 Requirements	Typical Test Results
Permanent Set %	50 (max)	48

FLUID RESISTANCE – ASTM Fuel C – ASTM D 471(70 hrs. @ 23°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, Shore A, ASTM D2240	+/- 5	-3
Tensile Strength Change, %, ASTM D412	-25 (max)	-29
Ultimate Elongation Change, %, ASTM D412	-20 (max)	+5
Volume Change, %, ASTM D471	0 to + 10	+3

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	-3
Tensile Strength Change, %, ASTM D412	-40 (max)	-38
Ultimate Elongation Change, %, ASTM D412	-20 (max)	+18
Volume Change, %, ASTM D412	0 to + 15	+8

Viton® ETP is a Registered Trade name of DuPont.

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