Request a Quote

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Marco Compound # V1044
95 Durometer, Black, Specialty FKM
Technical Datasheet

Common Names:
FKM, Fluoropolymer, Fluorel®, Viton®,

General Description:
FKM compounds are widely used in chemical, automotive, aerospace and industrial applications. These compounds offer excellent chemical and temperature resistance. V1044 is Marco's basic commercial grade compound. There are many additional specialty compounds based on A, B, F, GLT, GFLT, LTFE and ETP 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 Durometer.
- Explosive decompression resistant.
- High temperature resistance.
- 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:
- Steam, hot water, polar solvents, low molecular weight organic solvents and glycol-based brake fluids.

Cure System:
Bisphenol

Service Temperature:
-15 to 437°F
(Additional compounds may available with expanded temperature ranges).

Specification:
ASTM D2000 / SAE J2000 M7HK A1-10 B38

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	ASTM D2000 Requirements	Typical Test Results
Hardness, Shore A	95 +/- 5	93
Color	Black	Black
Tensile Strength, psi	1,450min.	2,100
Ultimate Elongation, %	70 Min.	90

HEAT RESISTANCE – AIR AGING ASTM D573 (70 hrs. @ 250°F)	**ASTM D2000 Requirements**	**Typical Test Results**
Hardness Change, Shore A, ASTM D2240	+10 (max.)	-1
Tensile Strength Change, %, ASTM D1414	-25 (max)	+5
Ultimate Elongation Change, %, ASTM D1414	-25 (max)	+4

COMPRESSION SET – ASTM D 395 Method B and ASTM D1414 (22 hrs. @ 200°C)	**ASTM D2000 Requirements**	**Typical Test Results**
Permanent Set %	20 (max)	12

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Fluorel® is a registered trademark of Dyneon.