Request a Quote

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Marco Compound # V1008
90 Durometer, Brown, Commercial Grade 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. V1008 is Marco's commercial grade 90 durometer brown 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 temperature resistance.
- High Durometer.
- 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 400° F
(additional compounds may be available with expanded temperature ranges).

Specification:
ASTM D2000 M3HK910 A1-10 B37 EF31

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	ASTM D2000 Requirements	Typical Test Results
Hardness, Shore A	90 +/- 5	90
Color	Brown	Brown
Tensile Strength, MPa (psi)	10 (1,450) min.	11.6 (1682)
Ultimate Elongation, %	100 Min.	149
Specific Gravity		2.468

HEAT RESISTANCE – A1-11, ASTM D 573 (70 hrs. @ 250°C)	**ASTM D2000 Requirements**	**Typical Test Results**
Hardness Change, points	+10 (max)	+2
Tensile Strength Change, %	-25 (max)	+1
Ultimate Elongation Change, %	-25 (max)	-24

COMPRESSION SET – B37, ASTM D 395 Method B (22 hrs. @ 175°C)	**ASTM D2000 Requirements**	**Typical Test Results**
Permanent Set %	30 (max)	10

FLUID RESISTANCE – ASTM Fuel C – EF31, ASTM D471(70 hrs. @ 23°C)	**ASTM D2000 Requirements**	**Typical Test Results**
Hardness Change, points	+/- 5	-2
Tensile Strength Change, %	-25 (max)	-12
Ultimate Elongation Change, %	-20 (max)	-14
Volume Change, %	0 to + 10	+2

Viton® is a registered trademark of Dupont.

Fluorel® is a registered trademark of Dyneon.