

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 #V1007

V1007 is a 90A durometer, commercial grade compound. It is an FKM Type A. There are many additional specialty compounds based on A, B, F, GLT, GFLT, LTFE and ETP 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.
- 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

APPLICATION EXAMPLES

- Vacuum applications
- Acidic applications
- Petroleum applications

ADDITIONAL INFORMATION

- Service Temperature of -15° to 437°F
- Cure System: Bisphenol
- Spec: ASTM D2000 M2HK910 A1-10 B38 EF31 E078

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

PHYSICAL PROPERTIES

ORIGINAL PROPERTIES	ASTM D2000 Requirements	Typical Test Results
Hardness, Shore A	90 +/- 5	90
Color	Black	Black
Tensile Strength, psi	1,450 min.	1843
Ultimate Elongation, %	100 Min.	128
Specific Gravity	----	1.833
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)	-3.1
Ultimate Elongation Change, %	-25 (max)	-9.5
COMPRESSION SET – B38, ASTM D 395 Method B (22 hrs. @ 200°C)	ASTM D2000 Requirements	Typical Test Results
Permanent Set %	50 (max)	20.7
FLUID RESISTANCE – ASTM Fuel C – EF31, ASTM D471(70 hrs. @ 23°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points	+/- 5	-3
Tensile Strength Change, %	-25 (max)	-13.2
Ultimate Elongation Change, %	-20 (max)	-6.7
Volume Change, %	0 to + 10	2.2
FLUID RESISTANCE – ASTM #101 Oil – E078, ASTM D471(70 hrs. @ 200°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points	-15 to +5	-9
Tensile Strength Change, %	-40 (max)	-15.8
Ultimate Elongation Change, %	-20 (max)	-8.2
Volume Change, %	0 to + 10	11.1