V1086 MATERIAL SUMMARY

75 Durometer, Black, XLT Type FKM

Request a Quote

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 #V1086

Marco compound V1086 is an XLT Type FKM which offers superior low temperature resistance compared to any other FKM formulation. It has excellent resistance to acids, fuels, mineral oils, greases, aliphatic, aromatic and chlorinated hydrocarbons, non-flammable hydraulic fluids (HFD) and many organic solvents and chemicals.

FEATURES

- XLT type compound, lowest temperature FKM
- Excellent fuels, ethanol and methanol resistance.
- High temperature resistance.
- Low gas permeability & compression set.
- Improved steam and hot water resistance.

APPLICATION EXAMPLES

- Extremely low-temperature environments
- Drilling applications

ADDITIONAL INFORMATION

- Service Temperature of -54° to 437°F
- Cure System: Peroxide
- Spec: ASTM D2000 2 HK 820 A1-10 B37 B38 E078 F15 Z1

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PHYSICAL PROPERTIES

ORIGINAL PROPERTIES	ASTM Method	Typical Test Results
Hardness, Shore A, points	D2240	78
Color		Black
Tensile Strength, psi	D1414	1500
Ultimate Elongation, %	D1414	130
Specific Gravity	D297	1.88
TR-10 °C		-40
COMPRESSION SET - (22 hours @ 392°F)	ASTM Method	Typical Test Results
% Permanent set	D395 Method B	17
COMPRESSION SET- ARM 300 (70 hours @ 392°F)	ASTM Method	Typical Test Results
% Permanent set	D395 Method B	16
Fluid Immersion – Distilled Water - (70 hrs. @ 212°F)	ASTM Method	Typical Test Results
Hardness Change, Shore A	D471	0
Volume Change, %	D412	2.7
FLUID IMMERSION – FUEL B – (70 hrs. @ 75°F)	ASTM Method	Typical Test Results
Hardness Change, Shore A	D471	-3
Tensile Strength Change, %	D412	-30
Ultimate Elongation Change, %	D412	12
Volume Change, %	D412	5
AMS 3021 Fluid Immersion – (70 hrs. @ 392°F)	ASTM Method	Typical Test Results
Hardness Change, Shore A	D471	-3
Tensile Strength Change, %	D412	-16
Ultimate Elongation Change, %	D412	-9
Volume Change, %	D412	6