

Marco Compound # V1033

75 Durometer Black, Specialty GFLT Type 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. Marco compound V1033 is a GFLT type FKM which offers increased chemical resistance and greatly improved low temperature performance compared to standard FKM materials. 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.
- Added Flex Fuels resistance and lower temperature capabilities
- Added resistance to steam, hot water and extended temperature range.
- 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, low molecular weight organic solvents and glycol-based brake fluids.

Cure System:

Peroxide

Continuous Service Temperature:

-29 to 437°F (-34 to 225°C)

Specification:

ASTM D2000 M7HK 710 A1-10 B38 EF31

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	ASTM D2000 Requirements	Typical Test Results
Hardness, Shore A	75 +/- 5	76
Color	Black	Black
Tensile Strength, MPa, (psi)	10 min. (1,440)	12.8 (1,850)
Ultimate Elongation, %	175 min.	200

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.

TEMPERATURE RETRACTION – ASTM D1329	ASTM D2000 Requirements	Typical Test Results
TR-10, Degrees F	-20 or colder	-24

HEAT RESISTANCE – AIR AGING ASTM D573 (70 hrs. @ 250°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, Shore A, ASTM D2240	+10 (max.)	0
Tensile Strength Change, %, ASTM D412	-25 (max)	-11
Ultimate Elongation Change, %, ASTM D412	-25 (max)	+21
Volume Change, %, ASTM D471	-----	-5

COMPRESSION SET – ASTM D395 Method B and ASTM D1414 (70 hrs. @ 392°C)	ASTM D2000 Requirements	Typical Test Results
Permanent Set %	20 (max)	12

FUEL C IMMERSION – ASTM D471 and ASTM D1414 (70 hrs. @ 22°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, Shore A, ASTM D2240	+/- 5	-1
Tensile Strength Change, %, ASTM D1414	-25	+5
Ultimate Elongation Change, %, ASTM D1414	-25	-6
Volume Change, %, ASTM D471	0 to + 10	+2

METHANOL IMMERSION – ASTM D471 (70 hours at 23° C)	ASTM D2000 Requirements	Typical Test Results
% Volume change	0 to +15	+5

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Fluorel® is a registered trademark of Dyneon.