

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 #V1033

V1033 is a low temperature, abrasive chemical resistant, FKM GFLT® recommended for Oxygenated Automotive Fuels (containing MeOH, EtOH, MTBE, etc. and Aromatic Hydrocarbon Process Fluid Chemicals. Compare to Parker V7594B

FEATURES

- Low & High temperature resistance.
- Added Flex Fuels resistance.
- 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.
- Low gas permeability, low compression set.

APPLICATION EXAMPLES

- Low temperature applications
- Acidic applications
- Flexfuel & petroleum applications

ADDITIONAL INFORMATION

- Service Temperature of -29° to 437°F
- Cure System: Peroxide
- Spec: ASTM D2000 / SAE J200 M7HK 710 A1-10 B38 EF31 Z1 Z2 Z3

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 | 75 +/- 5 | 76 |
| Color | Black | Black |
| Tensile Strength, MPa. (psi) | 10 min. (1,440) | 12.8 (1,850) |
| Ultimate Elongation, % | 175 min. | 200 |
| 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 |