



Overview

VT90BK31 is Canyon's 90 shore A durometer, anti-explosive decompression, black FKM Type GLT with improved low temp performance. Other FKM types are available: A, B, F, GF, GLT, GFLT, ULT, ETP. Compare to Parker materials.

Features & Benefits

- AED: Passes NORSOK M-710 and NACE TM0297 testing
- Great heat resistance & high temp stability. Improved low temp performance.
- Excellent chemical resistance

Service Temperature

- -40°C to 225°C (-40°F to 437°F)

Specification

- ASTM D2000 M3HK914 A1-10 B37 B38 EF31 E078 Z1 Z2

Test Data

Table 1. Physical Properties

Test	Requirements	Results
Color	Black	Black
Hardness, Shore A	90+/-5	92
Tensile Strength, psi (MPa)	2031 min	3212 (22.2)
Elongation	100% min	210%



Table 2. A1-10 - Heat Aging - 70 hrs at 250°C

Test (Change)	Requirements	Results
Hardness, Shore A	+10 max	+2
Tensile Strength, %	-25 max	-10
Elongation, %	-25 max	+9

Table 3. B37 - Compression Set - 22 hrs at 175°C

Test (Change)	Requirements	Results
Permanent Set, %	30 max	18

Table 4. B38 - Compression Set - 22 hrs at 200°C

Test (Change)	Requirements	Results
Permanent Set, %	50 max	19

Table 5. EF31 - Fuel C Resistance - 70 hrs at 23°C

Test (Change)	Requirements	Results
Hardness, Shore A	-5 to +5	-5
Tensile Strength, %	-25 max	-16
Elongation, %	-20 max	-15
Volume, %	0 to +10	+4

Table 6. E078 - ASTM Oil 101 Resistance - 70 hrs at 200°C

Test (Change)	Requirements	Results
Hardness, Shore A	-15 to +5	-10
Tensile Strength, %	-40 max	-23
Elongation, %	-20 max	-1
Volume, %	0 to +15	+15