



Overview

NB50BK00 is Canyon's standard 50 shore A durometer, black NBR. This is a very popular, cost-effective commodity material. Compare to Parker N0299-50.

Features & Benefits

- Good abrasion resistance
- Low Compression Set
- Cost Effective

Service Temperature

- -35°C to 122°C (-31°F to 252°F)

Specification

- ASTM D2000 M2BG508 A14 B14 E014 E034

Test Data

Table 1. Physical Properties

Test	Requirements	Results
Color	Black	Black
Hardness, Shore A	50+/-5	51
Tensile Strength, psi (MPa)	8 min	1682 (11.6)
Elongation	350% min	636%
Specific Gravity, g/cm ³		1.23

Looking for specific chemical compatibilities or desire more material information? [Please Contact Us!](#)



Table 2. A14 - Heat Aging - 70 hrs at 100°C

Test (Change)	Requirements	Results
Hardness, Shore A	-15 to +15	+1
Tensile Strength, %	-30 max	+2
Elongation, %	-50 max	-10

Table 3. B14 - Compression Set - 22 hrs at 100°C

Test (Change)	Requirements	Results
Permanent Set, %	25 max	19

Table 4. E014 - ASTM Oil #1 (901) Resistance - 70 hrs at 100°C

Test (Change)	Requirements	Results
Hardness, Shore A	-5 to +10	+3
Tensile Strength, %	-25 max	+34
Elongation, %	-45 max	-3
Volume, %	-10 to +5	-10

Table 5. E034 - ASTM Oil #3 (903) Resistance - 70 hrs at 100°C

Test (Change)	Requirements	Results
Hardness, Shore A	-10 to +5	-9
Tensile Strength, %	-45 max	-43
Elongation, %	-45 max	-41
Volume, %	0 to +25	+11