



Overview

NB70BK00 is Canyon's standard 70 shore A durometer, black NBR. This is a very popular, cost-effective commodity material. Compare to Parker N0674-70, N1470-70, and NA151-70.

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 M2BG714 A14 B14 EA14 EF11 EF21 E014 E034 F17

Test Data

Table 1. Physical Properties

Test	Requirements	Results
Color	Black	Black
Hardness, Shore A	70+/-5	68
Tensile Strength, psi (MPa)	2030 min	2117 (14.6)
Elongation	250% min	420%
Specific Gravity, g/cm ³		1.23



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

Test (Change)	Requirements	Results
Hardness, Shore A	+15 max	+8
Tensile Strength, %	-25 max	+3
Elongation, %	-50 max	-7

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

Test (Change)	Requirements	Results
Permanent Set, %	25 max	12

Table 4. EA14 - Water Resistance - 70 hrs at 100°C

Test (Change)	Requirements	Results
Hardness, Shore A	-10 to +10	-1
Volume, %	-15 to +15	+5

Table 5. E014 - ASTM Oil #1 (901) Resistance - 70 hrs at 100°C

Test (Change)	Requirements	Results
Hardness, Shore A	-5 to +10	+5
Tensile Strength, %	-25 max	-9
Elongation, %	-45 max	-4
Volume, %	-10 to +5	-8



**Table 6. E034 – ASTM Oil #3 (903)
Resistance – 70 hrs at 100°C**

Test (Change)	Requirements	Results
Hardness, Shore A	-10 to +5	-3
Tensile Strength, %	-45 max	-27
Elongation, %	-45 max	-11
Volume, %	0 to +25	+8

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

**Table 7. EF11 – Fuel A Resistance – 70 hrs
at 23°C**

Test (Change)	Requirements	Results
Hardness, Shore A	-10 to +10	-3
Tensile Strength, %	-25 max	-10
Elongation, %	-25 max	+1
Volume, %	-5 to +10	0

**Table 8. EF21 – Fuel B Resistance – 70 hrs
at 23°C**

Test (Change)	Requirements	Results
Hardness, Shore A	-30 to 0	-21
Tensile Strength, %	-60 max	-31
Elongation, %	-60 max	-8
Volume, %	0 to +40	+20

**Table 9. F17 – Low Temp Brittleness Test –
3 mins at -40°C**

Test (Change)	Requirements	Results
Brittleness	Non-Brittle	Non-Brittle