



Overview

NB70RE01 is Canyon's FDA Compliant, 70 shore A durometer, red NBR. This is a very popular, cost-effective commodity material. Compare to Parker N1069-70, N0674-70, N1470-70, and NA151-70.

Features & Benefits

- FDA compliant to 21 CFR 177.2600
- 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 E014 E034 EF11 EF21

Test Data

Table 1. Physical Properties

Test	Requirements	Results
Color	Red	Red
Hardness, Shore A	70+/-5	68
Tensile Strength, psi (MPa)	2030 min	2175 (15)
Elongation	250% min	300%
Specific Gravity, g/cm ³		1.26



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

Test (Change)	Requirements	Results
Hardness, Shore A	+15 max	+2
Tensile Strength, %	-20 max	+11
Elongation, %	-40 max	-7

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

Test (Change)	Requirements	Results
Permanent Set, %	25 max	14

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

Test (Change)	Requirements	Results
Hardness, Shore A	-10 to +10	0
Volume, %	-15 to +15	+2

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

Test (Change)	Requirements	Results
Hardness, Shore A	-5 to +10	+6
Tensile Strength, %	-25 max	+10
Elongation, %	-45 max	-10
Volume, %	-10 to +5	-7



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

Test (Change)	Requirements	Results
Hardness, Shore A	-10 to +5	-2
Tensile Strength, %	-45 max	+3
Elongation, %	-45 max	-10
Volume, %	0 to +25	+9

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	+1
Tensile Strength, %	-25 max	-2
Elongation, %	-25 max	-7
Volume, %	-5 to +10	+1

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

Test (Change)	Requirements	Results
Hardness, Shore A	-30 to 0	-15
Tensile Strength, %	-60 max	-30
Elongation, %	-60 max	-39
Volume, %	0 to +40	+24