



Overview

NB70BK91 is Canyon's extreme temperature, 70 shore A durometer, black NBR. This material has improved performance in both low and high temperature applications. Compare to Parker M83461, N0794-75, N0674-70, N1470-70, and NA151-70.

Features & Benefits

- Extreme temperature performance
- Good abrasion resistance
- Low Compression Set
- Cost Effective

Service Temperature

- -54°C to 135°C (-65°F to 275°F)

Specification

- ASTM D2000 M2BF714 A14 B14 E014 E034 F19

Test Data

Table 1. Physical Properties		
Test	Requirements	Results
Color	Black	Black
Hardness, Shore A	70+/-5	73
Tensile Strength, psi (MPa)	2030 min	2320 (16)
Elongation	250% min	280%
Specific Gravity, g/cm ³		1.21



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

Test (Change)	Requirements	Results
Hardness, Shore A	-15 to +15	+3
Tensile Strength, %	-30 to +30	+2
Elongation, %	-50 max	+40

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

Test (Change)	Requirements	Results
Permanent Set, %	25 max	10

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

Test (Change)	Requirements	Results
Hardness, Shore A	-10 to +10	+3
Tensile Strength, %	-25 max	+4
Elongation, %	-45 max	-4
Volume, %	-10 to +10	-1

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

Test (Change)	Requirements	Results
Hardness, Shore A	-20 max	-13
Tensile Strength, %	-45 max	-30
Elongation, %	-45 max	+33
Volume, %	0 to +60	+30

Table 6. F19 - Low Temp Brittleness Test - 3 mins at -55°C

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