



Overview

HN75BK15 is Canyon's low temperature, 75 shore A durometer, black HNBR. Hydrogenated NBR offers improved thermal performance over standard NBR materials. Compare to Parker KA158-70 and N0103-70.

Features & Benefits

- Good abrasion resistance
- Improved low temperature performance
- Low Compression Set
- Cost Effective

Service Temperature

- -50°C to 165°C (-58°F to 329F)

Specification

- ASTM D2000 6BG814 A14 B14 B34 E014 Z1

Test Data

Table 1. Physical Properties		
Test	Requirements	Results
Color	Black	Black
Hardness, Shore A	75+/-5	75
Tensile Strength, psi (MPa)	1450 min	2596 (17.9)
Elongation	125% min	230%
Specific Gravity, g/cm ³		1.25



Table 2. A14 - Heat Aging - 70 hrs at 100°C		
Test (Change)	Requirements	Results
Hardness, Shore A	+15 max	+6
Tensile Strength, %	-20 max	+5
Elongation, %	-40 max	-5

Table 3. B14 - Compression Set - 22 hrs at 100°C		
Test (Change)	Requirements	Results
Permanent Set, %	25 max	18

Table 4. Compression Set - 168 hrs at 150°C		
Test (Change)	Requirements	Results
Permanent Set, %	35 max	23

Table 5. E014 - ASTM Oil #1 (901) Resistance - 70 hrs at 100°C		
Test (Change)	Requirements	Results
Hardness, Shore A	-5 to +15	0
Tensile Strength, %	-25 max	+8
Elongation, %	-45 max	-7
Volume, %	-10 to +5	-2

Table 6. ASTM Oil #3 (903) Resistance - 70 hrs at 100°C		
Test (Change)	Requirements	Results
Hardness, Shore A	-20 to 0	-6
Tensile Strength, %	-45 max	-17
Elongation, %	-45 max	-12
Volume, %	0 to +35	+17

Table 7. Low Temp Brittleness Test - 3 mins at -55°C		
Test (Change)	Requirements	Results
Brittleness	Non-Brittle	Non-Brittle