



Overview

HN70BK15 is Canyon's low temperature, 70 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 5BG720 A14 B14 B34 E014 Z1

Test Data

Table 1. Physical Properties		
Test	Requirements	Results
Color	Black	Black
Hardness, Shore A	70+/-5	71
Tensile Strength, psi (MPa)	2031 min	2320 (16)
Elongation	200% min	210%
Specific Gravity, g/cm ³		1.25



Table 2. A26 - Heat Aging - 70 hrs at 150°C		
Test (Change)	Requirements	Results
Hardness, Shore A	+15 max	+12
Tensile Strength, %	-20 max	+5
Elongation, %	-40 max	+2

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

Table 4. E014 - ASTM Oil #1 (901) Resistance - 70 hrs at 100°C		
Test (Change)	Requirements	Results
Hardness, Shore A	-5 to +15	+2
Tensile Strength, %	-25 max	+10
Elongation, %	-45 max	-5
Volume, %	-10 to +5	-1

Table 5. ASTM Oil #3 (903) Resistance - 70 hrs at 100°C		
Test (Change)	Requirements	Results
Hardness, Shore A		-18
Tensile Strength, %	-45 max	-17
Elongation, %	-45 max	-15
Volume, %	0 to +35	+32

Table 6. Low Temp Brittleness Test - 3 mins at -50°C		
Test (Change)	Requirements	Results
Brittleness	Non-Brittle	Non-Brittle