



Overview

HN90BK00 is Canyon's standard 90 shore A durometer, black HNBR. Hydrogenated NBR offers improved thermal performance over standard NBR materials. Compare to Parker KA183-85.

Features & Benefits

- Good abrasion resistance
- Improved high temperature performance & chemical resistance
- Low Compression Set
- Cost Effective

Service Temperature

- -40°C to 150°C (-40°F to 302°F)

Specification

- ASTM D2000 M4DH910 A26 B36 E016 E036 F17

Test Data

Table 1. Physical Properties		
Test	Requirements	Results
Color	Black	Black
Hardness, Shore A	90+/-5	88
Tensile Strength, psi (MPa)	1450 min	3135 (21.6)
Elongation	100% min	230%
Specific Gravity, g/cm ³		1.28



Table 2. A26 - Heat Aging - 70 hrs at 150°C

Test (Change)	Requirements	Results
Hardness, Shore A	+10 max	+5
Tensile Strength, %	-15 max	+15
Elongation, %	-25 max	-19

Table 3. B36 - Compression Set - 22 hrs at 150°C

Test (Change)	Requirements	Results
Permanent Set, %	35 max	16

Table 4. E016 - ASTM Oil #1 (901) Resistance - 70 hrs at 150°C

Test (Change)	Requirements	Results
Hardness, Shore A	-5 to +10	+4
Tensile Strength, %	-20 max	+9
Elongation, %	-30 max	+2
Volume, %	-10 to +5	-2

Table 5. E036 - ASTM Oil #3 (903) Resistance - 70 hrs at 150°C

Test (Change)	Requirements	Results
Hardness, Shore A	-15 max	-3
Tensile Strength, %	-40 max	-2
Elongation, %	-30 max	-16
Volume, %	+25 max	+7

Table 6. F17 - Low Temp Brittleness Test - 3 mins at -40°C

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