



Overview

HN90BK11 is Canyon's Anti-Explosive Decompression (AED / RGD) 90 shore A durometer, black HNBR. Compare to Parker KA453-80, 21508, KB163-90, 21379, N4299A90, N4007A95, and N4288A95.

Features & Benefits

- Passes NORSOK M-710 AED and NACE TM0187 AED Testing
- Good abrasion resistance
- Improved high temperature performance & chemical resistance
- Low Compression Set

Service Temperature

- -25°C to 180°C (-13°F to 356°F)

Specification

- ASTM D2000 M2DH920 A26 B16 B36 E016 E036 F17 Z1 Z2

Test Data

Table 1. Physical Properties

Test	Requirements	Results
Color	Black	Black
Hardness, Shore A	90+/-5	91
Tensile Strength, psi (MPa)	2900 min	4786 (33)
Elongation	100% min	175%
Specific Gravity, g/cm ³		1.29



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

Test (Change)	Requirements	Results
Hardness, Shore A	+10 max	-1
Tensile Strength, %	-25 max	-5
Elongation, %	-30 max	-11
Weight, %		+0.2

Table 3. B16 - Compression Set - 22 hrs at 150°C (Button)

Test (Change)	Requirements	Results
Permanent Set, %	30 max	18

Table 4. B36 - Compression Set - 22 hrs at 150°C (Plied)

Test (Change)	Requirements	Results
Permanent Set, %	50 max	23

Table 5. E016 - ASTM Oil #1 (901) Resistance - 70 hrs at 150°C

Test (Change)	Requirements	Results
Hardness, Shore A	-5 to +10	-2
Tensile Strength, %	-20 max	-4
Elongation, %	-30 max	-5
Volume, %	-5 to +5	+1

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

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