



Overview

HN70GR00 is Canyon's standard 70 shore A durometer, Green HNBR. Hydrogenated NBR offers improved thermal performance over standard NBR materials. Compare to Parker N1173-70, KA174-75, and KA157-70.

Features & Benefits

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

Service Temperature

- -35°C to 163°C (-30°F to 325F)

Specification

- ASTM D2000 M3DH710 A26 B16 E016 E036 F17

Test Data

Table 1. Physical Properties		
Test	Requirements	Results
Color	Green	Green
Hardness, Shore A	70+/-5	70
Tensile Strength, psi (MPa)	1440 min	2335 (16.1)
Elongation, %	250% min	346%
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	+4
Tensile Strength, %	-15 max	+9
Elongation, %	-25 max	+3

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

Test (Change)	Requirements	Results
Permanent Set, %	30 max	23

Table 4. 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	-7
Elongation, %	-30 max	-5
Volume, %	-10 to +5	-3

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

Test (Change)	Requirements	Results
Hardness, Shore A	-15 max	-8
Tensile Strength, %	-40 max	-16
Elongation, %	-30 max	-4
Volume, %	-25 max	+12

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

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