



Overview

NB60BK05 is Canyon's low temperature, 60 shore A durometer, black NBR. This is a very popular, cost-effective commodity material.

Features & Benefits

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

Service Temperature

- -55°C to 122°C (-67°F to 252F)

Specification

- ASTM D2000 M2BG610 A14 B14 EA14 E014 F17

Test Data

Table 1. Physical Properties		
Test	Requirements	Results
Color	Black	Black
Hardness, Shore A	60+/-5	62
Tensile Strength, psi (MPa)	1450 min	1667 (11.5)
100% Modulus, psi (MPa)		551 (3.8)
Elongation	300% min	330%
Specific Gravity, g/cm ³		1.25



Table 2. A14 - Heat Aging - 70 hrs at 100°C

Test (Change)	Requirements	Results
Hardness, Shore A	-5 to +5	+2
Tensile Strength, %	-15 to +15	-10
Elongation, %	-15 max	-9

Table 3. B14 - Compression Set - 22 hrs at 100°C

Test (Change)	Requirements	Results
Permanent Set, %	25 max	15

Table 4. EA14 - Water Resistance - 70 hrs at 100°C

Test (Change)	Requirements	Results
Hardness, Shore A	-10 to +10	+6
Volume, %	-15 to +15	-6

Table 5. E014 - ASTM Oil #1 (901) Resistance - 70 hrs at 100°C

Test (Change)	Requirements	Results
Hardness, Shore A	-5 to +10	+5
Tensile Strength, %	-25 max	-14
Elongation, %	-45 max	-35
Volume, %	-10 to +5	-8

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

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