

Standard Black NBR 40A

## Overview

NB40BK00 is Canyon's standard 40 shore A durometer, black NBR. This is a very popular, cost-effective commodity material. Compare to Parker N0545-40.

## Features & Benefits

- Good abrasion resistance
- Low Compression Set
- Cost Effective

## Service Temperature

- -35°C to 122°C (-31°F to 252°F)

## Specification

- ASTM D2000 M2BG407 A14 B14 E014 E034

## Test Data

**Table 1. Physical Properties**

Test	Requirements	Results
Color	Black	Black
Hardness, Shore A	40+/-5	42
Tensile Strength, psi (MPa)	1015 min (8.96)	1300
Elongation	450% min	670%
Specific Gravity, g/cm <sup>3</sup>		1.21

Looking for specific chemical compatibilities or desire more material information? [Please Contact Us!](#)



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

Test (Change)	Requirements	Results
Hardness, Shore A	-15 to +15	+2
Tensile Strength, %	-20 max	0
Elongation, %	-40 max	-5

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

Test (Change)	Requirements	Results
Permanent Set, %	25 max	8

**Table 4. E014 - ASTM Oil #1 (901) Resistance - 70 hrs at 100°C**

Test (Change)	Requirements	Results
Hardness, Shore A	-5 to +10	+3
Tensile Strength, %	-25 max	-1
Elongation, %	-45 max	-3
Volume, %	-10 to +5	-2

**Table 5. E034 - ASTM Oil #3 (903) Resistance - 70 hrs at 100°C**

Test (Change)	Requirements	Results
Hardness, Shore A	-10 to +5	-9
Tensile Strength, %	-45 max	-33
Elongation, %	-45 max	-10
Volume, %	0 to +25	+11