NB70BK06 Datasheet

NSF 51, Black NBR 70A

Overview

NB70BK06 is Canyon's NSF 51, 70 shore A durometer, black NBR. This is a very popular, cost-effective material for food manufacturing. Compare to Parker N1069-70, N0674-70, N1470-70, and NA151-70.

Features & Benefits

- NSF 51 for Food Applications
- Good abrasion resistance
- Low Compression Set
- Cost Effective

Service Temperature

- -35°C to 122°C (-31°F to 252F)

Specification

- ASTM D2000 M2BG714 A14 B14 EA14 EO14 EO34 EF11 EF21

Test Data

Table 1. Physical Properties		
Test	Requirements	Results
Color	Black	Black
Hardness, Shore A	70+/-5	70
Tensile Strength, psi (MPa)	2030 min	2320 (16)
Elongation	250% min	300%
Specific Gravity, g/cm^3		1.25

Table 2. A14 - Heat Aging – 70 hrs at 100°C		
Test (Change)	Requirements	Results
Hardness, Shore A	+15 max	+2
Tensile Strength, %	-20 max	-1
Elongation, %	-40 max	-20

Table 3. B14 – Compression Set - 22 hrs at 100°C		
Test (Change)	Requirements	Results
Permanent Set, %	25 max	20

Table 4. EA14 – Water Resistance – 70 hrs at 100°C		
Test (Change)	Requirements	Results
Hardness, Shore A	-10 to +10	-5
Volume, %	-15 to +15	+9

Table 5. EO14 – 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	+3
Elongation, %	-45 max	-19
Volume, %	-10 to +5	-2

Rev C - Update: 12/03/2023

www.CanyonComponents.com
8 Industrial Way, Bldg D, Unit 4,
Salem, New Hampshire 03079

Table 6. E034 – ASTM Oil #3 (903) Resistance – 70 hrs at 100°C		
Test (Change)	Requirements	Results
Hardness, Shore A	-10 to +5	-4
Tensile Strength, %	-45 max	-18
Elongation, %	-45 max	-20
Volume, %	0 to +25	+9

Looking for specific chemical compatibilities or desire more material information? Please Contact Us!

Table 7. EF11 – Fuel A Resistance – 70 hrs at 23°C		
Test (Change)	Requirements	Results
Hardness, Shore A	-10 to +10	-3
Tensile Strength, %	-25 max	-15
Elongation, %	-25 max	-7
Volume, %	-5 to +10	+3

Table 8. EF21 – Fuel B Resistance – 70 hrs at 23°C		
Test (Change)	Requirements	Results
Hardness, Shore A	-30 to 0	-15
Tensile Strength, %	-60 max	-24
Elongation, %	-60 max	+2
Volume, %	0 to +40	+18