



Overview

NE70BK45 is Canyon's specialty low temperature, 70 shore A durometer, black Neoprene. This is Neoprene conforms to MIL-PRF-3065 SC 717 ABF2 and exhibits excellent low temperature capability & superior compression set. Compare to Parker C1124-70

Features & Benefits

- Good resistance to weathering
- Good heat resistance
- Good resistance to low temp solvents and refrigerants

Service Temperature

- -51°C to 121°C (-60°F to 250F)

Specification

- ASTM D 2000 M5BC710 A14 B14 E014 E034 F17

Test Data

Table 1. Physical Properties		
Test	Requirements	Results
Color	Black	Black
Hardness, Shore A	60+/-5	61
Tensile Strength, psi (MPa)	2465 min	2540 (17.5)
Elongation	250% min	410%
Specific Gravity, g/cm ³		1.46

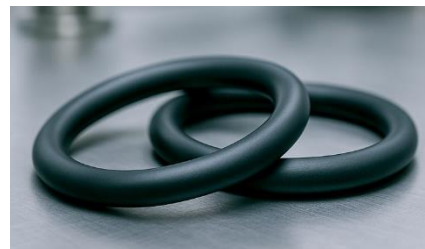


Table 2. A14 - Heat Aging - 70 hrs at 100°C

Test (Change)	Requirements	Results
Hardness, Shore A	+15 max	+9
Tensile Strength, %	-15 max	-10
Elongation, %	-40 max	-20

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

Test (Change)	Requirements	Results
Permanent Set, %	35 max	25

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

Test (Change)	Requirements	Results
Hardness, Shore A	-10 to +10	+4
Tensile Strength, %	-30 max	-17
Elongation, %	-30 max	-22
Volume, %	-10 to +15	-2

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

Test (Change)	Requirements	Results
Tensile Strength, %	-60 max	-21
Elongation, %	-60 max	-21
Volume, %	+100 max	+43

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

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