



Overview

NE40BK23 is Canyon's low temp 40 shore A durometer, black Neoprene. This is a popular, cost-effective low temperature material. Compare to Parker C0267-50.

Features & Benefits

- Improved low temperature resistance
- Low hardness
- Good resistance to weathering
- Good heat resistance
- Good resistance to low temp solvents and refrigerants

Service Temperature

- -46°C to 125°C (-51°F to 257°F)

Specification

- ASTM D2000 M2BC410 A14 B14 C12 E014 E034 F17

Test Data

Table 1. Physical Properties		
Test	Requirements	Results
Color	Black	Black
Hardness, Shore A	40+/-5	41
Tensile Strength, psi (MPa)	1450 min	1595 (11)
Elongation	500% min	560%



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

Test (Change)	Requirements	Results
Hardness, Shore A	+15 max	+2
Tensile Strength, %	-15 max	-3
Elongation, %	-40 max	-11

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

Test (Change)	Requirements	Results
Permanent Set, %	35 max	17

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

Test (Change)	Requirements	Results
Hardness, Shore A	-10 to +10	-3
Tensile Strength, %	-30 max	+2
Elongation, %	-30 max	-8
Volume, %	-10 to +15	+1

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

Test (Change)	Requirements	Results
Tensile Strength, %	-60 max	-50
Elongation, %	-50 max	-32
Volume, %	+100 max	+50

Table 6. F19 - Low Temp Brittleness Test - 3 mins at -55°C

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