



Overview

EP70BK01 is Canyon's standard 70 shore A durometer, sulfur cured, black EPDM. This is a very popular, cost-effective commodity material. Compare to Parker E0603-70.

Features & Benefits

- High resistance to weathering
- Good heat resistance
- Good abrasion resistance
- Low Compression Set
- Cost Effective

Service Temperature

- -55°C to 130°C (-67°F to 266°F)

Specification

- ASTM D2000 M3BA710 A14 B13 C12 F19
- ASTM D2000 M4CA710 A25 B35

Test Data

Table 1. Physical Properties

Test	Requirements	Results
Color	Black	Black
Hardness, Shore A	70+/-5	72
Tensile Strength, psi (MPa)	1450 min	2242 (15.5)
Elongation	250% min	330%
Specific Gravity, g/cm ³		1.14



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

Test (Change)	Requirements	Results
Hardness, Shore A	+10 max	+1
Tensile Strength, %	-25 max	+1
Elongation, %	-25 max	-10

Table 3. A25 - Heat Aging - 70 hrs at 125°C

Test (Change)	Requirements	Results
Hardness, Shore A	+10 max	+3
Tensile Strength, %	-20 max	+13
Elongation, %	-40 max	-20

Table 4. B13 - Compression Set - 22 hrs at 70°C

Test (Change)	Requirements	Results
Permanent Set, %	25 max	6

Table 5. B35 - Compression Set - 22 hrs at 125°C

Test (Change)	Requirements	Results
Permanent Set, %	70 max	16

Table 6. C12 - Ozone - ASTM D 1171

Test (Change)	Requirements	Results
No Cracks	Pass	Pass

**Table 7. F19 – Low Temp Brittleness Test –
3 mins at -55°C**

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

**Table 8. EA14 – Water Resistance – 70 hrs
at 100°C**

Test (Change)	Requirements	Results
Hardness, Shore A	N/A	+1
Volume, %	-5 to +5	-2

Table 9. C12 – Ozone – ASTM D 1171 B

Test (Change)	Requirements	Results
No Cracks	Pass	Pass

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