

## Overview

EP50BK01 is Canyon's standard 50 shore A durometer, sulfur cured, black EPDM. This is a very popular, cost-effective commodity material. Compare to Parker E1100-50.

## Features & Benefits

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

## Service Temperature

- -55°C to 130°C (-67°F to 266F)

## Specification

- ASTM D2000 M2BA510 A14 B13 EA14 F19

## Test Data

**Table 1. Physical Properties**

| Test                                | Requirements  | Results   |
|-------------------------------------|---------------|-----------|
| Color                               | Black         | Black     |
| Hardness, Shore A                   | 50+/-5        | 52        |
| Tensile Strength, psi (MPa)         | 1440 min (13) | 1885 (13) |
| Elongation                          | 400% min      | 750%      |
| Specific Gravity, g/cm <sup>3</sup> |               | 1.16      |



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

| Test (Change)       | Requirements | Results |
|---------------------|--------------|---------|
| Hardness, Shore A   | +10 max      | +2      |
| Tensile Strength, % | -25 max      | -6      |
| Elongation, %       | -25 max      | -10     |

**Table 3. B13 - Compression Set - 22 hrs at 70°C**

| Test (Change)    | Requirements | Results |
|------------------|--------------|---------|
| Permanent Set, % | 25 max       | 7       |

**Table 4. EA14 - Water Resistance - 70 hrs at 100°C**

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

**Table 5. F19 - Low Temp Brittleness Test - 3 mins at -55°C**

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

EP50BK01 is now available on the Canyon Components online store.

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