



## Overview

FS70BU10 is Canyon's 70 shore A durometer, general purpose blue Fluorosilicone. If MIL spec or AMS spec material is necessary, see FS70BU00. Compare to Parker® Fluorosilicone materials.

## Features & Benefits

- Good flexibility and compression set resistance.
- Excellent resistance to aging, weather and ultraviolet light.
- Excellent resistance to fuels, oils and other wide range of chemicals

## Service Temperature

- -75°C to 180°C (-103°F to 356°F)

## Specification

- ASTM D 2000 M2FK706 A19 B37 EF31 E036 F19

## Test Data

| Table 1. Physical Properties        |              |          |
|-------------------------------------|--------------|----------|
| Test                                | Requirements | Results  |
| Color                               | Blue         | Blue     |
| Hardness, Shore A                   | 70+/-5       | 72       |
| Tensile Strength, psi (MPa)         | 870 min      | 1305 (9) |
| Elongation                          | 150% min     | 295%     |
| Specific Gravity, g/cm <sup>3</sup> |              | 1.47     |



| Table 2. A19 - Heat Aging - 70 hrs at 225°C |              |         |
|---|--------------|---------|
| Test (Change)                               | Requirements | Results |
| Hardness, Shore A                           | -5 to +10    | +2      |
| Tensile Strength, %                         | -45 max      | -16     |
| Elongation, %                               | -45 max      | -14     |

| Table 3. B37 - Compression Set - 22 hrs at 175°C |              |         |
|--|--------------|---------|
| Test (Change)                                    | Requirements | Results |
| Permanent Set, %                                 | 50 max       | 15      |

| Table 4. EF31 - Reference Fuel C - 70 hrs at 23°C |              |         |
|---|--------------|---------|
| Test (Change)                                     | Requirements | Results |
| Hardness, Shore A                                 | -15 to 0     | -12     |
| Tensile Strength, %                               | -60 max      | -15     |
| Elongation, %                                     | -50 max      | +6      |
| Volume, %   | 0 to +25     | +15     |

| Table 5. E036 - ASTM 3 Oil - 70 hrs at 150°C |              |         |
|--|--------------|---------|
| Test (Change)                                | Requirements | Results |
| Hardness, Shore A                            | -10 to 0     | -5      |
| Tensile Strength, %                          | -35 max      | -13     |
| Elongation, %                                | -30 max      | -1      |
| Volume, %                                    | 0 to +10     | +2      |

| Table 6. F19 - Low Temp Brittleness Test - 3 mins at -55°C |              |             |
|--|--------------|-------------|
| Test (Change)  | Requirements | Results     |
| Brittleness  | Non-Brittle  | Non-Brittle |

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