



Overview

FS70BU01 is Canyon's 70 shore A durometer, blue Fluorosilicone. It's manufactured compliant per MIL-DTL-25988, AMS-R-25988, MIL-R-25988 Class 1, Type 1 & 2, grade 70. It's also UL 157.

Features & Benefits

- UL 157
- 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

- -73°C to 177°C (-100°F to 350F)

Specification

- MIL-DTL-25988 Compliant (non QPL)

Test Data

Table 1. Physical Properties

Test	Requirements	Results
Color	Blue	Blue
Hardness, Shore A	70+/-5	68
Tensile Strength, psi (MPa)	750 min	1015 (7)
Elongation	125% min	230%
Specific Gravity, g/cm ³		1.57

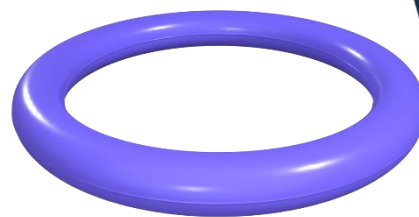


Table 2. Heat Aging – 70 hrs at 200°C

Test (Change)	Requirements	Results
Hardness, Shore A	-5 to +10	+1
Tensile Strength, %	-25 max	-13
Elongation, %	-25 max	-14
Weight Loss, %	-2 max	-1

Table 3. Compression Set – 22 hrs at 175°C

Test (Change)	Requirements	Results
Permanent Set, %	30 max	10

Table 4. Compression Set – 70 hrs at 23°C

Test (Change)	Requirements	Results
Permanent Set, %	15 max	9

Table 5. AMS 3021 Oil – 70 hrs at 150°C

Test (Change)	Requirements	Results
Hardness, Shore A	-15 to +15	-8
Tensile Strength, %	-40 max	-15
Elongation, %	-25 max	-1
Volume, %	+1 to +15	+9

Table 6. TT-S-735, Type III – 22 hrs at 23°C

Test (Change)	Requirements	Results
Hardness, Shore A	-20 max	-2
Tensile Strength, %	-45 max	-11
Elongation, %	-35 max	-7
Volume, %	+1 to +25	+19