

Overview

FS80RE05 is Canyon's 80 shore A durometer, internally lubricated with PTFE, red Fluorosilicone. It's designed to be a low friction Fluorosilicone. Compare to Parker® L1186-80.

Features & Benefits

- PTFE internally lubricated
- 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

- ASTM D2000 M2FK806 A19 EF31 E036 F19

Test Data

Table 1. Physical Properties

Test	Requirements	Results
Color	Red	Red
Hardness, Shore A	80+/-5	81
Tensile Strength, psi (MPa)	895 min	1160 (8)
Elongation	200% min	430%
Specific Gravity, g/cm ³		1.31



Table 2. A19 – Heat Aging – 70 hrs at 200°C

Test (Change)	Requirements	Results
Hardness, Shore A	+15 max	+2
Tensile Strength, %	-45 max	-11
Elongation, %	-45 max	-38

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

Test (Change)	Requirements	Results
Permanent Set, %	N/A	20

Table 4. EF31 – Reference Fuel C – 23 hrs at 23°C

Test (Change)	Requirements	Results
Hardness, Shore A	-15 to 0	-12
Tensile Strength, %	-60 max	-22
Elongation, %	-50 max	-28
Volume, %	0 to +25	+10

Table 5. E036 – ASTM 3 Oil – 70 hrs at 150°C

Test (Change)	Requirements	Results
Hardness, Shore A	-10 to 0	0
Tensile Strength, %	-35 max	+4
Elongation, %	-30 max	-11
Volume, %	0 to +10	+2

FS80RE05 is now available on the Canyon Components online store.

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