



Overview

AF80BK00 is Canyon's standard 80 shore A durometer, black AFLAS® TFE/P. This is a very popular, cost-effective commodity material. Great performance in steam-in-place (SIP) applications.

Features & Benefits

- High temperature resistance
- Low compression set
- High steam resistance up to 200°C
- Excellent resistance to amines, acids, and bases
- Up to 200 MRad of gamma ray resistance

Service Temperature

- -10°C to 232°C (15°F to 450F)

Test Data

Table 1. Physical Properties

Test	Requirements	Results
Color	Black	Black
Hardness, Shore A	80+/-5	79
Tensile Strength, psi (MPa)	1600 min	2470 (17)
Elongation	150% min	180%
Specific Gravity, g/cm ³		1.6

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



Table 2. Heat Aging – 70 hrs at 250°C

Test (Change)	Requirements	Results
Hardness, Shore A	0 to +10	0
Tensile Strength, %	-25 max	+4
Elongation, %	-25 max	+39

Table 3. Compression Set – 22 hrs at 200°C

Test (Change)	Requirements	Results
Permanent Set, %	35 max	20

Table 4. ASTM Oil #3 (903) Resistance – 70 hrs at 150°C

Test (Change)	Requirements	Results
Hardness, Shore A	-12 to 0	-3
Tensile Strength, %	-25 max	-11
Elongation, %	-20 max	+8
Volume, %	0 to +20	+12

Table 5. AS1241 Type IV Fluid Resistance – 70 hrs at 100°C

Test (Change)	Requirements	Results
Hardness, Shore A	-20 max	-8
Tensile Strength, %	-40 max	-32
Elongation, %	-20 max	0
Volume, %	0 to +30	+25

AF80BK00 is now available on the Canyon Components [online store](#).