



Overview

AF80BK35 is Canyon's standard 80 shore A durometer, USP Class VI, FDA compliant black AFLAS® TFE/P. Great performance in steam-in-place (SIP) applications.

Features & Benefits

- USP Class VI <87> & <88>
- FDA 21 CFR 177.2600
- 3-A Sanitary Compliant
- 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 235°C (15°F to 455°F)

Test Data

Table 1. Physical Properties

Test	Requirements	Results
Color	Black	Black
Hardness, Shore A	80+/-5	80
Tensile Strength, psi (MPa)		2650 (11.4)
Elongation		175%
100% Modulus, psi (MPa)		1710 (11.8)
Specific Gravity, g/cm ³		1.68



Table 2. Compression Set - 70 hrs at 200°C

Test (Change)	Results
Permanent Set, %	28

Table 3. Typical Aflas Steam Resistance - 168 hrs at 160°C

Test (Change)	Results
Hardness, Shore A	-3
Tensile Strength, %	-8
Elongation, %	-16
Volume, %	+5

Table 4. Typical Aflas Water Resistance - 72 hrs at 100°C

Test (Change)	Results
Hardness, Shore A	0
Tensile Strength, %	-11
Elongation, %	+17
Volume, %	+1

AF80BK35 is now available on the Canyon Components [online store](#).

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