



Overview

AF90BK01 is Canyon's anti-explosive decompression (AED) 90 shore A durometer, black AFLAS® TFE/P. This material is tested to NACE TM0187 and NORSOK M710. Excellent performance in high pressure applications.

Features & Benefits

- NORSOK TM0187 rapid gas decompression
- NACE TM0187 sour gas environment
- 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 450°F)

Test Data

Table 1. Physical Properties

Test	Requirements	Results
Color	Black	Black
Hardness, Shore A	90+/-5	90
Tensile Strength, psi (MPa)		2340 (16.1)
Elongation		100%
Specific Gravity, g/cm ³		1.6



Table 2. Heat Aging – 70 hrs at 200°C

Test (Change)	Results
Hardness, Shore A	0
Tensile Strength, %	+2
Elongation, %	-10

Table 3. Compression Set – 22 hrs at 150°C

Test (Change)	Results
Permanent Set, %	24

Table 4. Sodium Hydroxide Resistance – 70 hrs at 70°C

Test (Change)	Results
Hardness, Shore A	+1
Volume, %	-1

Table 6. Ammonia Resistance – 168 hrs at 23°C

Test (Change)	Results
Hardness, Shore A	+1
Tensile Strength, %	-11
Elongation, %	+35
Volume, %	+3

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