

## Overview

AF85BK00 is Canyon's standard 85 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	85+/-5	86
Tensile Strength, psi (MPa)	1600 min (17)	2470
Elongation	150% min	180%
Specific Gravity, g/cm <sup>3</sup>		1.6

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

The information provided in this data sheet is based on test results and our combined expertise. This data sheet is intended to serve only as a reference and is not considered a guarantee.



**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

AF85BK00 is now available on the Canyon Components [online store](#).