



## Overview

EP70BK80 is a black, 70 shore A durometer, peroxide cured EPDM designed for use in food, pharmaceutical, & medical applications. It is USP VI <87> & <88>, 3A, and FDA compliant. Compare to Parker E3609-70.

## Features & Benefits

- USP Class VI <87> & <88>
- FDA Compliant per CFR 21 177.2600
- Peroxide Cured
- 3A Sanitary 18-03 Class 2
- Animal derivative ingredient free (ADI), BSE free, TSE free
- High resistance to weathering
- Good heat resistance
- Good abrasion resistance
- Low Compression Set
- Cost Effective

## Service Temperature

- -40°C to 150°C (-40°F to 300F)

## Test Data

**Table 1. Physical Properties**

Color	Black
Hardness, Shore A	70
Tensile Strength, psi (MPa)	2500 (17.2)
Elongation	396%
Specific Gravity, g/cm <sup>3</sup>	0.85



**Table 2. Heat Aging – 70 hrs at 100°C**

Hardness, Shore A	+1
Tensile Strength Change, %	-8
Ultimate Elongation Change, %	-12
Weight Loss, %	-0.1

**Table 3. Heat Aging – 70 hrs at 150°C**

Hardness, Shore A	+4
Tensile Strength Change, %	-10
Ultimate Elongation Change, %	-12
Weight Loss, %	-0.4

**Table 4. Compression Set**

22hrs at 125°C	11%
120hrs at 130°C	35%
672hrs at 130°C	28%

**Table 5. Low Temp Brittleness – 3 mins at -40°C**

Test (Change)	Requirements	Results
Brittleness	Non-Brittle	Non-Brittle

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