



## Overview

Canrez® CP80BK21 is Canyon's superior perfluoroelastomer offering best-in-class steam resistance and near universal chemical resistance. CP80BK21 is anti-explosive decompression to NACE TM0297, FDA compliant, and USP Class VI <87> and <88>.

Compare to Chemraz® 555, 628, 629, 694, and Kalrez® 7375, 6375, 7090.

## Features & Benefits

- High temperature steam resistance
- AED NACE TM0297
- FDA CFR. 21 Compliance
- USP Class VI <87> and <88>.
- Near universal chemical resistance
- High temperature resistance
- Low compression set

## Recommended Applications

- Semiconductor
- Chemical Processing
- Liquid Chromatography Service
- Nuclear
- Oil & Gas
- Steam in Place Sterilization
- Food & Beverage
- Ink & Paint

## Service Temperature

- -15°C to 320°C (5°F to 610°F)
- Steam < 315°C (600°F)
- Amines < 80°C (180°F)



## Test Data

Table 1. Physical Properties

Color	Black
Hardness, Shore A	80
Tensile Strength, psi (MPa)	2250 (15.5)
Elongation	118%
100% Modulus, psi (MPa)	2030 (14)

Table 2. Compression Set

24hrs at 200°C	14%
72hrs at 200°C	20%
72hrs at 250°C	23%
72hrs at 280°C	34%
72hrs at 300°C	43%
350hrs at 300°C	52%

Table 3. NACE TM0297

Test Gas	100 % CO <sub>2</sub>
Test Temperature, °C	100
Test Pressure, bar	150
Test Decompression Rate, bar/min	70
NACE Test Rating	1
Results	PASS

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