



Overview

CanRez® CP80BK03 is an 80A FFKM offering best-in-class chemical resistance at a low cost. It has excellent resistance to hot amines, steam, sour gas, strong acids and solvents.

Compare CP80BK03 to Kalrez 1050LF, Kalrez 6375, and Kalrez 6380.

Features & Benefits

- Hot amine resistance
- Steam resistance
- Near universal chemical resistance
- High Temperature Resistance
- Low Compression Set
- Cost Effective

Recommended Applications

- Semiconductor
- Chemical Processing
- Solvents, MEK, DMF, Acetone
- Esters, Ethers, Ketones, Aldehydes, Xylene

Service Temperature

- -15°C to 260°C (5°F to 500°F)
- Steam < 225°C (437°F)
- Amines < 200°C (400°F)



Test Data

Table 1. Physical Properties

Color	Black
Hardness, Shore A	80
Tensile Strength, psi (MPa)	2776 (19.1)
Elongation	178%
Modulus at 100%, psi (MPa)	1536 (10.6)
Modulus at 50%, psi (MPa)	319 (2.2)
Specific Gravity, g/cm ³	2
Fluorine Percentage	72.7%
TR10, °C	-4

Table 2. Compression Set

70hrs at 200°C	24
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Looking for specific chemical compatibilities or desire more material information? [Please Contact Us!](#)

Table 3. Heat Aging – 70 hrs at 250°C

Hardness, Shore A	-2
Tensile Strength Change, %	-10
Ultimate Elongation Change, %	+20
Volume Change, %	+0

CP80BK03 is now available on the Canyon Components [online store.](#)



High Temperature Steam & Water

Table 4. Steam – 168 hrs at 200°C

Hardness, Shore A	-5
Tensile Strength Change, %	-17
Ultimate Elongation Change, %	+42
Volume Change, %	+2

Table 5. Steam – 672 hrs at 200°C

Hardness, Shore A	-6
Tensile Strength Change, %	-20
Ultimate Elongation Change, %	+42
Volume Change, %	+2

Table 6. Water – 672 hrs at 200°C

Hardness, Shore A	-4
Tensile Strength Change, %	+0
Ultimate Elongation Change, %	+13
Volume Change, %	+5

Chemical Compatibility

Table 7. MDEA – 168 hrs at 150°C

Hardness, Shore A	-1
Tensile Strength Change, %	-24
Ultimate Elongation Change, %	+0
Volume Change, %	+4

Table 8. Dipropylamine – 168 hrs at 200°C

Hardness, Shore A	-6
Tensile Strength Change, %	-29
Ultimate Elongation Change, %	-8
Volume Change, %	+5

Table 9. Ethanolamine – 72 hrs at 150°C

Hardness, Shore A	
Tensile Strength Change, %	
Ultimate Elongation Change, %	
Volume Change, %	

Table 10. Glacial Acetic Acid – 336 hrs at 100°C

Hardness, Shore A	-5
Tensile Strength Change, %	-14
Ultimate Elongation Change, %	-16
Volume Change, %	+8

Table 11. Sulfuric Acid, 98% – 672 hrs at 180°C

Hardness, Shore A	-12
Tensile Strength Change, %	-42
Ultimate Elongation Change, %	-28
Volume Change, %	+7

Table 12. Nitric Acid, 65% – 672 hrs at 110°C

Hardness, Shore A	+4
Tensile Strength Change, %	-42
Ultimate Elongation Change, %	-6
Volume Change, %	-2

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