PERFREZ® 6021 (CZ80C457) Product Data Sheet
Semiconductor applications

Our range of PERFREZ® high performance materials for semiconductor processes meets the most challenging and demanding applications for aggressive chemicals, gas and high temperatures. These materials offer excellent chemical and thermal resistance, thermal stability and high purity under these extreme process conditions.

We provide our customers with the highest quality products and technical support on seal design, material recommendation, installation techniques and test analysis, specifically for the semiconductor market.

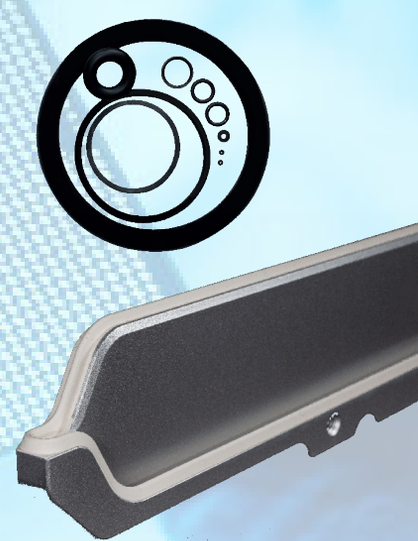
CZ80C457 FFKM is one of a specialized line of perfluoroelastomers developed for the harsh environment of the semiconductor industry, it's utilised for processes that are mainly facing higher temperatures (above 230°C) or aqueous solutions.

This material will outlast standard materials that impact process integrity

Basic Polymer: Perfluoroelastomer
Hardness: 80 +/- 5 Shore A
Temperature range: -20˚C to +300˚C
Colour: Black

Key features

- **Broad chemical resistance**
- **Excellent physical properties**
- **Exceptional heat resistance**
- **High temperature capability**



Products

- **High performance o-rings**
- **Special mouldings**
- **Rubber to metal moulding**

Property	Results
Hardness (Shore A)	80 (+/- 5)
Elongation at break, %	171
Tensile Strength, psi (MPa)	1966 (13.56)
Modulus @ 100%, psi (MPa)	908 (6.26)
Specific Gravity	1.99
Min. Operating Temperature, °C (°F)	-30 (-22)
Max. Operating Temperature, °C (°F)	300 (572)
Compression Set @200°C , %	18.5

Applications

- **Wafer Preparation**
- **Wet Etching**
- **Stripping**
- **Copper PLating**
- **Diffusion & RTP**
- **Door and Lid seals**
- **Valve Seals**
- **KF FItting Seals**
- **Container Seals**
- **Drain Seals**

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