

PERFREZ® XL11 (CZ85CK45) 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.

CZ85CK45 FFKM offers superior plasma resistance especially aggressive fluorine based process. It also features the excellent physical properties with low CTE that mitigate any risk of extrusion due to thermal expansion.

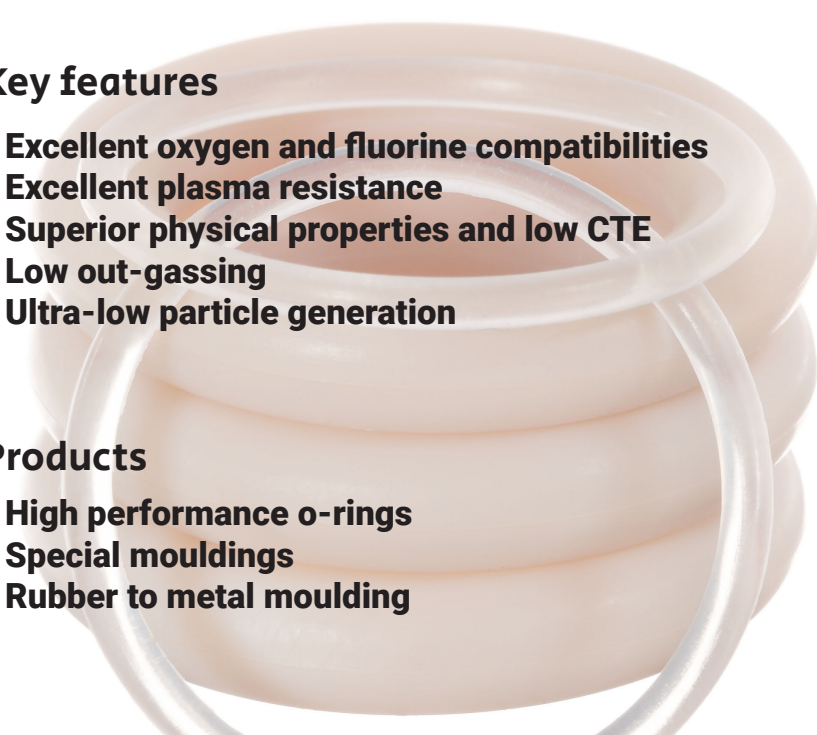
Basic Polymer: Perfluoroelastomer
Hardness: 85 +/- 5 Shore A
Temperature range: -20°C to +260°C
Colour: Beige

Key features

- Excellent oxygen and fluorine compatibilities
- Excellent plasma resistance
- Superior physical properties and low CTE
- Low out-gassing
- Ultra-low particle generation

Products

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



Property	Results
Hardness (Shore A)	85 (+/-5)
Elongation at break, %	142
Tensile Strength, psi (MPa)	2425 (16.72)
Modulus @ 100%, psi (MPa)	1708 (11.78)
Coefficient of Thermal Expansion	2.27x10 ⁻⁴
Min. Operating Temperature, °C (°F)	-20 (-4)
Max. Operating Temperature, °C (°F)	260 (500)

Applications

- Bell Jar Seals
- Chamber Lid Seals
- Door Seals
- End Point Window Seals
- Gas Inlet Seals
- Isolator Valve Seals
- Slit Valves
- Window Seals

These results represent typical material properties and are not to be used for specification purposes. They are achieved under laboratory conditions and do not necessarily correspond to results measured on finished goods. It does not absolve the customer of the responsibility to make tests for their intended process or purpose. Ceetak Ltd makes no warranties and assumes no liability in connection with any use of this information.

