

CoreRes[®] KI-300



Perfluoroelastomer Parts

CoreRes[®] KI-300 is Perfluoroelastomer which is applying Nano-size filler for minimizing particle generation and contamination during the process.

The material offers outstanding thermal stability, and it can be used in both static and dynamic sealing applications because of its superior elastic recovery and mechanical strength properties in high temperature process.

CoreRes[®] KI-300 has also outstanding plasma resistance for Cleaning gas(NF3, O2 etc) and reactive gas. It suits for Dry etching, PVD, CVD, Diffusion process.

A maximum continuous service temperature of 320 °C is suggested.

Features & Benefits

- Excellent plasma resistance
- Excellent compression set
- Outstanding thermal resistance
- Minimal contamination
- Good physical properties

Applications

- Door Seals Lid seals
- Slit valves Gas inlet seals
- Windows seals KF fitting seals
- Isolator valves

Recommend Process Application

- Dry etch plasma
- Metallization
(PVD, CVD, sputtering, evaporation)
- Deposition (CVD, PECVD, HDPCVD)
- Remote plasma cleans
- Dry ashing

Typical Physical Properties

Color	Dark Brown
Tensile Strength (Mpa)	14.4
Elongation at Break (%)	167
100% Modulus (Mpa)	3.4
Shore A Hardness	72
Compression Set on O-Ring #214 70hrs @ 200°C	13
Compression Set on O-Ring #214 70hrs @ 250°C	17
Compression Set on O-Ring #214 70hrs @ 300°C	32
Max Temperature (°C)	320
