

CoreRes[®] 5080

Perfluoroelastomer Parts



CoreRes[®] 5080 is specifically developed for corrosive plasma and a variety of chemical environments. The material offers outstanding thermal stability and lower particle generation. It is targeted for deposition process (HDPCVD, PECVD, SACVD), Etching, Ashing, etc. It can be used in both static and dynamic sealing applications because of its superior elastic recovery and mechanical strength properties.

A maximum continuous service temperature of 300°C is suggested.

Features & Benefits

- Good plasma resistance
- Good physical properties

Applications

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

Recommend Process Applications

- Metallization (PVD, Sputtering)
- Deposition
(CVD, PECVD, HDPCVD, Evaporation)
- Dry etch plasma
- Wet etch
- Remote plasma cleaning
- Dry ashing

Typical Physical Properties	
Color	White/Black
Tensile Strength (Mpa)	19.8
Elongation at Break (%)	155
100% Modulus (Mpa)	13.9
Shore A Hardness	82
Compression Set on O-Ring #214 70hrs @ 200°C	18
Service Temperature	300°C