



Chemraz® SD676

High Temperature Elastomer for Advanced Semiconductor Processes

Chemraz® 676 is a high temperature perfluoroelastomer that excels in the extreme demands of diffusion and other dry plasma processes. It exhibits superior compression set resistance and is recommended for both static and dynamic high temperature seal applications up to 324°C.



Description	Chemraz® SD676
Typical Properties	
Color	Black
Compound Type	Perfluoroelastomer
Specific Gravity	1.99
Hardness (Shore A)	76
Tensile Strength (psi)	2680
Elongation (%)	145
100% Modulus (psi)	1440
Service Temperature Range	-18°C - 324°C
Compression Set	
Compression Set (%) (70 hrs @204°C)	10
Compression Set (%) (70 hrs @300°C)	20

Features & Benefits

- Carbon-loaded material
- For use in systems where contamination is less critical
- Suitable for higher temperature applications
- Superior compression set
- Excellent plasma resistance

Applications

- Quartz rod seals
- Bell jar seals
- High-temperature valve seals
- KF fitting seals

Recommended Process Applications

- Oxidation (LPCVD)
- Diffusion
- Rapid thermal processing (RTP)
- Metallization (CVD, PVD, sputtering, evaporation)
- Deposition (CVD, PECVD, RPCVD, HDPCVD, APCVD, SACVD, DVCD)
- Dry plasma etch
- Remote plasma cleans
- Dry ashing
- Implant anneal