

Chemraz® 543

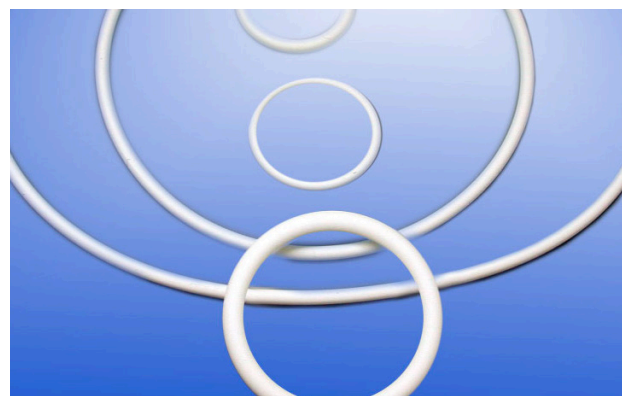
Universal Compound for Conventional Applications

Chemraz® 543 is recommended for a wide variety of semiconductor equipment dry processing applications where seal reliability with minimal contamination is required. It offers excellent performance in etching, metalization, and diffusion processes where temperatures do not exceed 410°F (210°C). The hardness of this material allows for some hardware finish inconsistency.

Typical Properties	
Physical Properties	Typical
Color	White
Polymer Type	Perfluoroelastomer
Specific Gravity	2.21
Hardness, Shore A	80
Mechanical	
Tensile Strength, psi (kPa)	1700 (11722)
Elongation, %	175
Tensile Modulus, psi (kPa)	
Modulus @ 50% Elongation	570 (3930)
Modulus @ 100% Elongation	1055 (7273)
Compression Set, 70 Hours @ 204°C @ 25% Deflection, %	25
Thermal	
Service Temperature Range	-22°F to 410°F (-30°C to 210°C)

Note: Unless otherwise indicated, all tests are performed on AS 568A (-214) o-rings.

Note: Color variations and dark spots that might be observed in Chemraz® parts are considered cosmetic and an inherent result of the polymer curing process. They are not foreign matter and not anticipated to adversely affect the performance of the part in service. Please contact a Greene Tweed applications engineer for additional information.



Features and Benefits

- Good plasma resistance
- Good physical properties
- Minimal contamination
- Excellent performance as “universal product”

Applications

- Door seals
- Slit valves
- Window seals
- Isolator valve seals
- Lid seals
- Gas inlet seals
- KF fitting seals

Recommended Process Applications

- Metalization (CVD, PVD, sputtering, evaporation)
- Deposition (CVD, PECVD, RPCVD, HDPCVD, APCVD, SACVD, DCVD)
- Dry plasma etch
- Remote plasma cleans
- Dry ashing
- Ion implant
- Implant anneal
- Rapid thermal processing (RTP)

Contact Us

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