

Chemraz® 592

High Strength and Purity

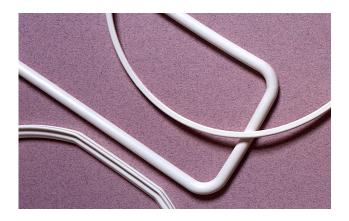
Chemraz® 592, a versatile perfluoroelastomer developed with a proprietary filler system, is very resistant to plasma attack. This compound's durometer allows for some hardware finish inconsistency and higher sealing loads. It is well suited for critical seals in static and dynamic dry applications where reliability and purity are equally essential. Chemraz® 592 is recommended for applications with service temperatures up to 464°F (240°C).

Typical Properties	
Physical Properties	Typical
Color	White
Polymer Type	Perfluoroelastomer
Specific Gravity	2.07
Hardness, Shore A*	80
Mechanical	
Tensile Strength, psi (kPa)	2100 (14479)
Elongation, %	120
Tensile Modulus, psi (kPa)	
Modulus @ 50% Elongation	700 (4826)
Modulus @ 100% Elongation	1770 (12204)
Compression Set: 70 Hours @ 204°C @ 25% Deflection, %	36
Thermal	
Service Temperature Range	-22°F to 464°F (-30°C to 240°C)

Not to be used for specification purposes.

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

- Excellent physical properties
- Inert mineral filler system provides excellent resistance to plasma attack
- Good static and dynamic performance

Applications

Lid seals

- Slit valve seals
- Endpoint windows
- Valve seals
- Window seals
- · Isolator valve seals
- · Gas inlet seals
- · Bell jar seals
- KF fitting seals

Recommended Process Applications

- Dry ashing (O₂)
- Oxidation (LPCVD)/diffusion
- Metalization (CVD, PVD, sputtering, evaporation)
- Deposition (CVD, PECVD, RPCVD, HDPCVD, APCVD, SACVD, DCVD)
- · Dry plasma etch
- Remote plasma cleans
- Implant anneal
- · Rapid thermal processing (RTP)

Contact Us

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^{*} Test performed on button samples.