

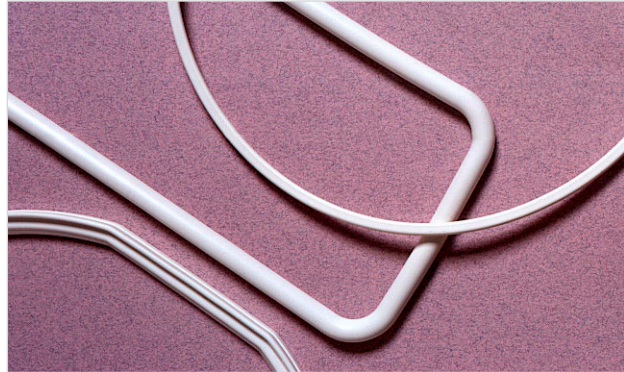


CHEMRAZ® 592

High Strength and Purity

SEALING SOLUTIONS

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's 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 240°C (464°F).



FEATURES & BENEFITS

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

APPLICATIONS

- Slit valve seals
- Lid 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)

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TYPICAL PROPERTIES*	
Physical	Typical Value
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	-30°C to 240°C (-22°F to 464°F)

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

Statements and recommendations in this publication are based on our experience and knowledge of typical applications of this product and shall not constitute a guarantee of performance nor modify or alter our standard warranty applicable to such products.

Prior to actual use it is recommended compatibility tests be run to determine suitability in a specific application. This is critical where failure could result in injury or damage. A regular program of inspection and replacement should be implemented. Greene, Tweed technical personnel are available to help with a recommendation.