



CHEMRAZ[®] 661

Minimal Particulation and Maximum Plasma Resistance

SEALING SOLUTIONS

Chemraz[®] 661 perfluoroelastomer is specifically developed by Greene, Tweed to meet the unique demands of aggressive plasma systems. This product's unique formulation provides enhanced plasma resistance and reduced contamination resulting in less downtime and lower cost of ownership. Chemraz 661 is recommended for both static and dynamic dry wafer processing applications such as etch and CVD. Chemraz 661 remains stable at service temperatures up to 240°C (464°F).

FEATURES & BENEFITS

- Minimal particulation
- Maximum plasma resistance
- Withstands a variety of aggressive chemicals
- Excellent physical properties
- Unique filler system

APPLICATIONS

- Window seals
- Bell jar seals
- Valve seals
- KF fitting seals
- Isolator valve seals
- Lid seals
- Gas inlet seals
- Slit valve seals

RECOMMENDED PROCESS APPLICATIONS

- **Deposition (CVD, PECVD, RPCVD, HDPCVD, APCVD, SACVD, DCVD)**
- **Dry plasma etch**
- **Remote plasma cleans**
- Dry ashing
- Oxidation (LPCVD)/Diffusion
- Metalization (CVD, PVD, sputtering, evaporation)
- Implant anneal

Contact Us

Greene, Tweed
Semiconductor
Kulpsville, PA, USA

Tel: +1.215.256.9521
Fax: +1.215.256.0189

www.gtsemi.com



TYPICAL PROPERTIES*

Physical	Typical Value
Color	White
Polymer Type	Perfluoroelastomer
Specific Gravity	2.11
Hardness, Shore A	80
Mechanical	
Tensile Strength, psi (kPa)	2620 (18065)
Elongation, %	140
Tensile Modulus, psi (kPa)	
Modulus @ 50% Elongation	400 (2758)
Modulus @ 100% Elongation	1200 (8274)
Compression Set: 70 hours @ 204°C @ 25% Deflection, %	17
Thermal	
Service Temperature Range	-20°C to 260°C (-4°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.