

Chemraz® 655

High-Temperature Perfluoroelastomer

Chemraz® 655 is Greene Tweed's high-temperature, off-white perfluoroelastomer. Specifically developed for wafer processes with operating temperatures up to 600°F (316°C), Chemraz® 655 provides excellent chemical resistance with minimal particle generation. Available in a wide range of geometries and cross-sections, it offers the diversity required for a variety of dynamic or static dry processing applications.

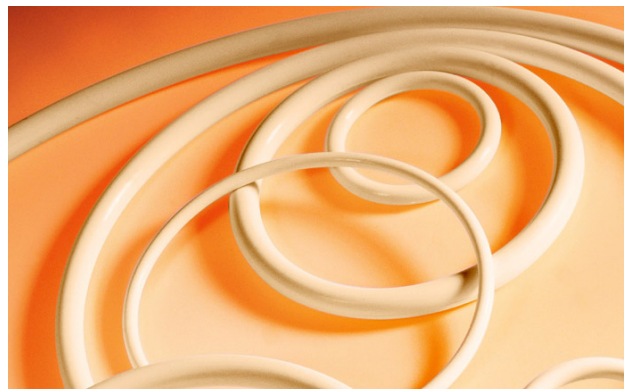
Typical Properties	
Physical Properties	Typical
Color	Off-White
Polymer Type	Perfluoroelastomer
Specific Gravity	2.11
Hardness, Shore A*	82
Mechanical	
Tensile Strength, psi (kPa)	1870 (12893)
Elongation, %	190
Tensile Modulus, psi (kPa)	
Modulus @ 50% Elongation	600 (4137)
Modulus @ 100% Elongation	1040 (7170)
Compression Set: 70 Hours @ 204°C @ 25% Deflection, %	15
Compression Set: 70 Hours @ 315°C @ 25% Deflection, %	45
Thermal	
Service Temperature Range	-4°F to 600°F (-20°C to 316°C)

Not to be used for specification purposes.

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

* Test performed on button samples.

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

- Service temperatures up to 600°F (316°C)
- Excellent balance of physical properties
- Minimal contamination
- Withstands a variety of aggressive chemicals
- Unlimited design flexibility

Applications

- Door seals
- Slit valves
- Window seals
- Isolator valve seals
- Lid seals
- Gas Inlet seals
- KF fitting seals
- Chamber seals
- Valve seals
- Endpoint windows

Recommended Process Applications

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

Contact Us

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