

PRELIMINARY DATA

Chemraz® G57

Minimal Contamination in Dry Plasma Etching Processes

Specifically developed to meet the demands of aggressive dry plasma systems, Chemraz® G57 perfluoroelastomer's unique formulation provides enhanced plasma resistance and minimal contamination, resulting in less downtime and higher wafer processing yields. Recommended primarily for both static and dynamic oxide etch wafer processing applications, Chemraz® G57 remains stable at service temperatures up to 572°F / 300°C.



Description	Chemraz® G57
Typical Properties	
Polymer Type	FFKM
Color	Burgundy
Manufacturing Method	Compression Molded
Hardness (Shore A)	73
Tensile Strength (psi)	2000
Elongation (%)	200
100% Modulus (psi)	650
Thermal Expansion	
CTE (Coefficient of Thermal Expansion), CLTE/°C	0.000336
Maximum Temperature	
Temperature (°C)	572°F / 300°C
Compression Set	
Compression Set (%) 204°C, 70 hrs, flat plates, -214 orings	15

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 plasma resistance in a variety of aggressive chemical environments
- Minimal particulation
- Withstands high service temperatures up to 572°F / 300°C

Applications

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

Recommended Process Applications

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

Greene Tweed

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