

Material Profile: Superior™ F815

Superior F815 was specifically developed to be a cost-effective, high-performance compound for semiconductor applications. Superior F815 offers outstanding plasma resistance and low particulation in a wide range of plasma environments.

Features and Benefits

- Outstanding plasma resistance
- Minimum particulation
- Wide chemical resistance
- High physical properties
- Cost-effective

Recommended Processes

- Deposition: CVD, APCVD, HDPCVD, PECVD, RPCVD, SACVD
- Plasma etch: poly, oxide and metal
- Ashing
- Metallization: PVD, sputtering
- Ion Implant



Specialty Fluoroelastomer with No Carbon Fillers
Service Temperature Range: - 30 to 220°C

Equipment Locations

- Chamber Lid Seals
- Bell Jar Seals
- Endpoint Windows
- Gas Inlet Seals
- Isolator Valve Seals
- KF Fittings
- Slit Valve Seals
- Valve Seals
- Window Seals

Typical Physical Properties

Color	Black
Shore A Durometer	75
Tensile Strength, psi (MPa)	3280 (22.6)
Elongation	420%
Modulus at 100% Elongation, psi (MPa)	595 (4.1)
Compression Set: 70 hrs. at 200°C	29%
Service Temperature Range, °C (°F)	-30 to 220 (-22 to 428)

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