Material Profile: Superior™ F880

Superior F880 was specifically developed to be a cost-effective, high-performance compound for semiconductor applications. Superior F880 has the advantage of being compounded with no metallic elements so that it will not yield metal ions as contaminants in high energy plasma applications.

Features and Benefits

- Outstanding plasma resistance
- Minimum particulation
- Wide chemical resistance
- Excellent high temperature compression set resistance
- High physical properties
- Cost-effective

Specialty Fluoroelastomer with No Carbon Fillers

Recommended Processes

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

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	Ivory
Hardness, Shore A	75
Tensile Strength, psi (MPa)	3205 (22.1)
Elongation	420%
Compression Set: 70 hrs. at 150°C	23%
Service Temperature Range, °C (°F)	-5 to 150 (23 to 302)

NOTE - International Seal, Co. (ISC) is a wholly owned subsidiary of Freudenberg-NOK.

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