



PUREFLUOR™ 706

High Purity Fluoroelastomer

SEALING SOLUTIONS

PureFluor™ 706 is a low durometer, high purity, fluoroelastomer, developed for a wide range of semiconductor processing sealing applications. Special engineering applications requiring low sealing force materials, such as bonded slit valve gates, are well suited for PureFluor 706. Recommended for use in a range of plasma equipment applications, from etch and plasma enhanced CVD to plasma ashing applications, PureFluor 706 is ideal for sealing devices that must accommodate tolerance stackup conditions. PureFluor 706 offers very low metallic ion levels and good resistance to today's advanced process chemistries. Contact our Semiconductor engineering and sales experts for specific application recommendations.

FEATURES & BENEFITS

- Good plasma resistance
- Soft material for low sealing forces and tolerance stackups
- High purity, low metallic ion content
- Low cost

APPLICATIONS

- Bonded slit valve gates
- Chamber seals
- Window seals
- Filter seals
- Gas inlet seals
- Lid seals
- Door seals
- Valve seals

RECOMMENDED PROCESS APPLICATIONS

- **Deposition**
- **Dry plasma etch**
- Dry ashing
- Oxidation
- Diffusion
- Metalization
- Wet Benches
- Wet / Chemical applications

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.



TYPICAL PROPERTIES*	
Physical	Typical Value
Color	Translucent Amber
Polymer Type	Fluoroelastomer
Specific Gravity	1.88
Hardness, Shore A	61
Mechanical	
Tensile Strength, psi (kPa)	1851 (12762)
Elongation, %	334
Tensile Modulus, psi (kPa)	
Modulus @ 50% Elongation	136 (938)
Modulus @ 100% Elongation	205 (1413)
Compression Set: 70 hours @ 204°C @ 25% Deflection, %	24
Thermal	
Service Temperature Range	-29°C to 220°C (-20°F to 428°F)

* Note: Unless otherwise indicated, all tests are performed on AS 568A (-214) O-rings.

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