

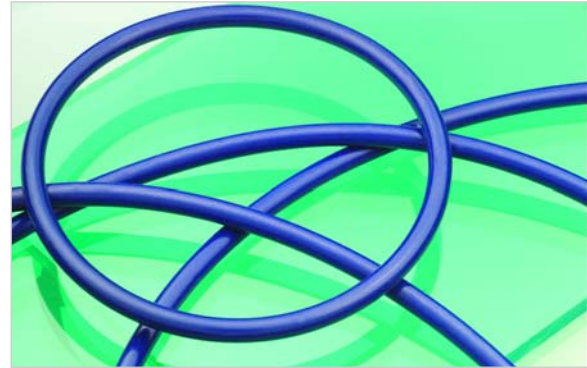


FPD Blue™ 707

Minimal Contamination in FPD Processing

FLUOROELASTOMER

Specifically developed for flat panel display CVD and dry plasma etch equipment where seal reliability and minimal contamination are essential, FPD Blue™ 707 fluoroelastomer provides excellent chemical compatibility and withstands a variety of aggressive chemicals. Available in an infinite range of geometries and cross sections, this material offers the diversity required for a variety of dynamic or static dry processing applications. FPD Blue 707 remains stable at service temperatures up to 220°C (428°F) and is ideally suited for large lid seals and bonded slit valve door seals.



FEATURES & BENEFITS

- Withstands a variety of aggressive chemicals for long in-life service
- Minimal contamination due to seal degradation or metallic ion content
- Extends in-use seal life between preventative maintenance cycles over conventional carbon-black-filled elastomers
- Excellent physical properties
- Unlimited design flexibility

APPLICATIONS

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

RECOMMENDED PROCESS APPLICATIONS

- Deposition (CVD, PECVD, RPCVD, HDPCVD, APCVD, SACVD, DCVD)
- Dry plasma etch
- Remote plasma cleans

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	Blue
Polymer Type	Fluoroelastomer
Specific Gravity	1.90
Hardness, Shore A	75
Mechanical	
Tensile Strength, psi (kPa)	3582 (24700)
Elongation, %	245
Modulus, psi (kPa)	
Modulus @ 50% Elongation	339 (2337)
Modulus @ 100% Elongation	771 (5316)
Compression Set: 70 hours	
@ 204°C (400°F) @ 25% Deflection, %	24
Thermal	
Service Temperature Range	-20°C to 220°C (-4°F to 428°F)

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

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