



Zitex® G Filter Membranes

Zitex®G is a versatile microporous form of polytetrafluoroethylene (PTFE). Exhibiting outstanding chemical compatibility and excellent thermal stability, Zitex G structures are able to handle virtually any corrosive fluid. Strong and tough, Zitex G membranes are self-supporting and typically do not require non-PTFE polymeric backings that can compromise performance. Aqueous solutions may be filtered by using pressures that exceed the membrane's water initiation pressure, or with the aid of wetting agents such as ethanol.

Inherently hydrophobic and chemically resistant, Zitex G prevents passage of liquid solutions below their initiation pressures while allowing free passage of gases. These characteristics make Zitex G an effective hydrophobic venting material to provide pressure equalization in liquid packaging containers. As a diffusion membrane in gas sensors, the porous structure of Zitex allows for gas passage to the sensor while retaining liquids or restricting liquid penetration into the device.

Zitex G can also be manufactured to custom dimensions and profiles up to 0.25 inch (6.3mm) thick having controlled density and mechanical properties to meet industry requirements for use in aircraft engine seal applications.

Features/Benefits

- Chemical inertness – resists attack by virtually all acids, bases and solvents
- Thermal stability – can withstand temperatures as high as 500°F (260°C) and as low as -450°F (-268°C).
- Hydrophobicity allows passage of gases while preventing liquid flow
- High wet strength
- Non-contaminating
- Self-supporting
- Non-stick surface for excellent filter cake release
- Self-gasketing – when clamped between solid flanges, Zitex G compacts to form its own gasket.



Zitex® G-100 Series Typical Properties*

Property	Unit	Type				
		G-104	G-106	G-108	G-110	G-115
Functional Pore Size	microns	5-6	4-5	3-4	1-2	1-2
Air Flow , 100 cc./1.0 in. ² /20 oz. (Gurley Densitometer Test)	seconds	1.7 ± 0.8	2.5 ± 1.5	4-5	5-6	6.5 ± 1.5
Bubble Point (Ethanol)	psi	0.6 ± 0.2	0.8 ± 0.2	1.0 ± 0.2	1.2 ± 0.2	1.2 ± 0.2
Water Flow Rate Through 1 ft. ² @13.5 psi	GPM	75 ± 15	55 ± 10	40 ± 10	25 ± 5	20 ± 5
Water Initiation Pressure	psi	2 ± 0.5	3 ± 0.5	4 ± 0.5	6 ± 0.5	6 ± 0.5
Breaking Strength	lbs./inch width (avg)	4.8	7.2	9.6	12.0	15.0
Elongation	%	75	75	75	75	75
Pore Volume	%	55	50	45	40	40
Thickness	inches	0.004 ± 0.0005	0.006 ± 0.001	0.008 ± 0.002	0.010 ± 0.002	0.015 ± 0.002
Put-Ups	Standard width up to 10", standard length 100', 3" I.D. cores Longer lengths are available upon request					

*Data shown are representative and not to be used as material specifications. Zitex G materials are available in thicknesses up to 0.25". These materials are ideally suited for gasketing applications where a compressible liner is required. These gaskets are ideal for glass-to-glass fittings, or where non-uniform sealing areas are involved. Please consult Saint-Gobain Performance Plastics for these custom products or special formulations for specific applications. Zitex G can be produced in thicknesses greater than .015".

Zitex® is a registered trademark of Saint-Gobain Performance Plastics.



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AFF-1728-0317-HIVE

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