

Zitex®

G

Zitex G was developed to satisfy specialized properties in certain applications. This series exhibits the same unique characteristics as Zitex A.

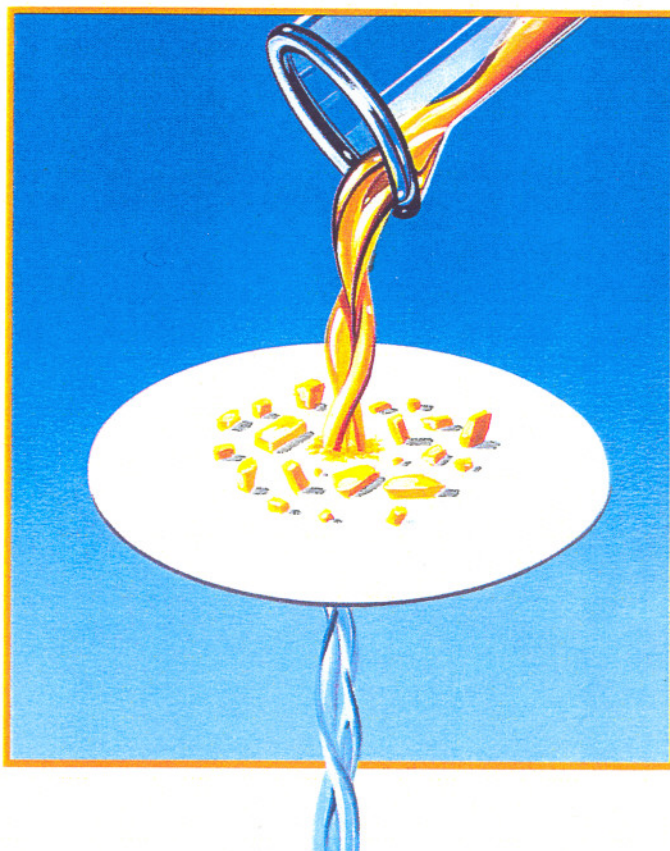
Zitex G also has very high water retention pressures and is the logical choice where a highly reliable hydrophobic vent is required. Two other Zitex G properties that make it ideal as an air-PTFE dielectric for miniature coaxial cables are tensile strength and elongation. Because these are significantly greater than with Zitex A, they allow easier wire wrapping without fear of breakage. Zitex G is approximately 50% air by volume, and thus provides unusually good dielectric characteristics.

For instance, Type G-106 has a dielectric constant of 1.5 and a dissipation factor less than .00022 at 10 GHz. Zitex G is also available in perforated form with 46% open area.

Strong and tough, Zitex G can be installed in membrane holders without the need for non-PTFE polymeric backings. This means there's no compromising on properties that might be important to your application.

Particle retention is also very high, especially when filtering air and other gasses.

On the subject of liquid filtration, Zitex G stands out from the crowd, again. Liquids may be filtered by using pressures exceeding the membrane's water initiation pressure, or with the aid of wetting agents such as ethanol.



Zitex® . . . Norton Co. Reg. TM

SAINT-GOBAIN
PERFORMANCE PLASTICS

Saint-Gobain Performance Plastics
150 Dey Road • Wayne, N.J. • 07470
Phone: 973-696-4700 • Fax: 973-696-4056

Typical ZITEX[®] G-100 Series Properties

Described below are several standard Zitex G products. If these types do not provide the properties which you require, please contact Norton-Performance Plastics for our recommendations. Special formulations can be developed for specific applications. Zitex G can be produced in thicknesses greater than .015".

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)	sec.	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.					

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 Norton-Performance Plastics for these custom products.



Saint-Gobain Performance Plastics
150 Dey Road • Wayne, N.J. • 07470
Phone: 973-696-4700 • Fax: 973-696-4056

Norton assumes no obligations or liability for any advice furnished by it, or for results obtained with respect to these products. All such advice is given and accepted at the buyer's risk. Norton warrants that the materials it sells do not infringe the claims of any United States patent; but no license is implied nor is any further patent warranty made.