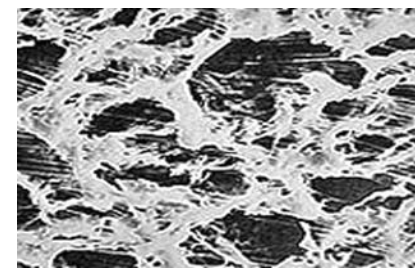


Our unsupported porous PTFE material is equivalent to most of the leading suppliers of specialty analytical membranes. These membranes demonstrate exceptional physical characteristics, consistent pore size, high particle retention, high load rates and excellent flow rates. The incredibly high cellular pore structure are attributed to the techniques involved in manufacturing the material, providing a continuous, uniform homogeneous structure.

- | | | |
|---|----------------------------------|--------------------------------|
| - Unsupported, virgin PTFE material | - Flame retardant | - Analytical |
| - Chemically Inert | - Easy caking removal | - Invitro Diagnostics |
| - Hydrophobic | - Low electrical conductivity | - Venting |
| - Heat stable from -450°F to 500°F | - Pore sizes from 0.8µm to 100µm | - Industrial gasketing |
| - Thicknesses from 0.010 inch to 0.300 inch | - Customizable flow rates | - Liquid or gas filtration |
| - Pore volumes from 50 - 90% | - Customizable surface harnesses | - Filtration of acids or bases |



1000X magnification micrograph

Material	Thickness	Pore Size	Bubble			Air Flow		Water Flow	Water Initiation Pressure		Pore Volume	Possible Pore Volume
			(psi)	(bar)	kg/cm ²	(sec) a.	(sec) b.		(psi)	kg/cm		
IWT-PTFE008	10	0.8	8.36	0.576	0.587	74 c.	11.5 d.	1.15 e.	23	1.6	70%	60-90
IWT-PTFE050	24	6	0.75	0.0517	0.052	58	90	140	2	0.14	80%	50-90
IWT-PTFE080	12	8	0.75	0.0517	0.052	29	45	275	2	0.14	80%	50-90
IWT-PTFE010	15	10	0.7	0.0482	0.049	16	25	430	1.44	0.1	90%	50-90
IWT-PTFE250	15	25	0.33	0.0227	0.023	8	12	1,100	1	0.07	85%	60-90
IWT-PTFE500	20	50	na	na	na	1.6	2.5	na	na	na	85%	60-90

- Air Flow, a. sec. - Time required for 100 milliliters of air to flow through 1sq. cm filter area at 20° C with a differential pressure of 3.1 cm water (0.043 psi).
- Air Flow, b. sec. - Using a Gurley Densometer, time required for 100 milliliters of air to flow through a 0.1 sq. in. orifice with a 5 oz. cylinder. pressure differential of 3.1 cm water (0.043 psi).
- Water Flow - Water flow rates are milliliters per min. per cm² with a differential pressure of 52 cm HG (10 psi).
- Methanol Bubble Point - Pressure required to force air through a methanol-wet membrane.
- Water Initiation Pressure - Pressure required to force water through the membrane.
- Air Flow, c. sec - Required for 10 milliliters air to pass through 1 sq. cm filter area at 20° C with a differential pressure of 31 cm water (0.44 psi).
- Air Flow, d. sec - Using a High Pressure Gurley Densometer, time required for 10 milliliters of air to flow through 1 sq. in. orifice with a differential pressure of 31 cm water (0.44 psi).
- Water Flow, e. - Filter was initially wetted with methanol prior to water flow.