



## **POREX Virtek® Sintered PTFE Membrane for Medical Venting and Selective Separation Filtering Applications**

The changing global healthcare environment requires differentiated, reliable and reproducible medical materials to help provide precision, accuracy, and consistency in current and next generation medical devices. POREX Virtek® sintered PTFE membrane technology is a performance tested, and technologically advanced, portfolio of PTFE based hydrophobic porous membrane materials designed specifically for use in today's challenging medical device applications where venting and selective separation filtering are a necessary fail-safe for the device in question.

Porex Virtek® membranes are USP Class VI tested and are robust, pure, and durable membranes that are a clean white color and available in six different product configurations differentiated by airflow, ingress resistance, and membrane thickness. The membrane is manufactured in a cleanroom environment and is customizable to customer needs and specifications through slitting (down to 0.5"), cutting rolls to length, and die cutting. In addition, these membranes are easily welded and assembled naturally super-hydrophobic and are designed for optimal airflow, bacterial filtration efficiency (BFE) and fluid barrier properties.

### **Differentiated Porex Virtek® Sintered PTFE Membrane Features**

- Membrane tested to, and in compliance with, USP class VI
- Cleanroom manufactured
- Membrane is pure PTFE with no additives and PFOA free
- Excellent chemical and heat resistance
- High tensile strength
- Membrane thickness from 0.1mm to 0.19mm
- Wide range of secondary process including welding, bonding, and printing

**Foster Corporation**

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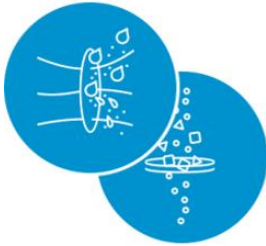
## POREX Virtek® Sintered PTFE Membrane Technology Technical Data

POREX Virtek™ Medical PTFE	Thickness, mm, Nominal	Airflow, l/hr/cm <sup>2</sup> , Typical at 70 mbar	BFE <sup>2</sup> % Nominal	WEP, mbar Typical
MD10	0.13	107 (min 70)	>99.9	270 (min 175)
MD10L	0.30	85 (min 48)	>99.9	270 (min 175)
MD15	0.18	75 (min 45)	>99.99	370 (min 265)
MD20	0.25	25 (min 16)	>99.9999	520 (min 350)
MD22	0.10	17 (min 5)	>99.99	765 (min 500)
MD25	0.19	7 (min 2)	>99.9999	1050 (min 750)

<sup>2</sup> The Bacterial Filtration Efficiency (BFE) data is based on a modified version of ASTM

F2101. POREX® Virtek™ Medical PTFE materials exceeded the standard BFE value of 98%.

### Main Functional Areas for Porex Virtek®



#### vent & filter:

exchange of air, fumes, a gas, or water vapor while acting as fluid, particulate and bacteria barrier

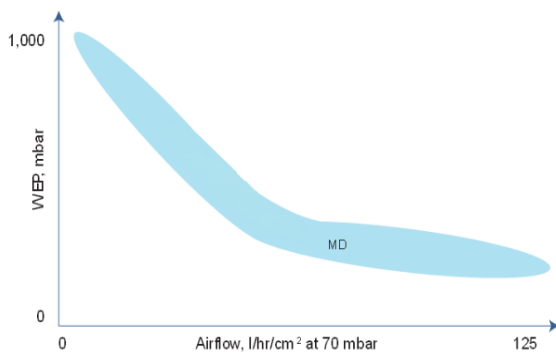


#### reflectivity:

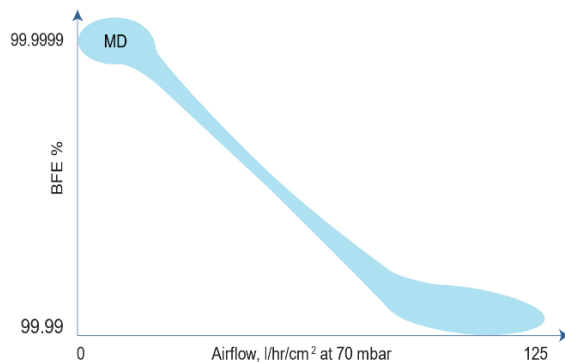
property of reflecting light or radiation

### Porex Virtek® Water Entry and Bacterial Filtration Efficiency Data

#### Water Entry Pressure



#### Bacterial Filtration Efficiency



## Applications

