MEDICAL

Glass Fiber Media (Hydrophobic)

220607.6OGL

For Venting and Air/Gas Filtration Applications

Our family of hydrophobic glass fiber media is comprised of a glass fiber matrix, including a high performance binder cast on various support matrices. The support matrices include cellulose and a woven glass fabric. Our materials are post-treated with a patented process rendering them both hydrophobic and oleophobic.

The use of hydrophobic glass fiber media as a vent filter, can be used in applications that require exchange of gases while reducing the risk of airborne bacterial contamination.

For example, hydrophobic glass fiber media can be used to allow air to enter and exit vessels such as bioreactors, isolation or environmental chambers, fermentation tanks, carboys, and other small containers.Similarly, hydrophobic glass fiber materials can be used in-line for low-pressure air/gas delivery to instruments and culture vessels, bioisolation of a vacuum source, flushing instruments, and cleaning parts.

Increasingly, the use of a hydrophobic material as a vent in finished devices and equipment is necessary to provide a barrier to airborne contaminants. The need to protect workers, patients, and equipment from harmful aerosolized contaminants necessitates effective vent filtration. Hydrophobic glass fiber media yield high air flow rates with adequate filtration efficiency ratings at an economical cost point.

Applications

- Venting
- Hydrophobic barrier

Sealing

- Mechanical
- Heat (depending on support layer)
- Insert molding

Product Information

Specification

Typical Membrane Characteristics

Base Material	Grade	Thickness @ 0.48 bar, 7.0 psi (mils)	Thickness @ 0.48 bar, 7.0 psi (µm)
Microglass fiber on cellulose support	E01008E	6.0–10.0	152.4-254.0
Microglass fiber on cellulose support	E01340-LP	12.0-18.0	304.8-457.2
Microglass fiber on cellulose support	BO70DW	10.0-14.0	254.0-335.6
Microglass fiber on a woven glass fabric	TV20A45TST	4.0-7.0	101.6-177.8
Microglass fiber on a fine glass cloth	TX40A30TST	4.0-8.0	101.6-203.2

Typical Membrane Characteristics

Base Material	Grade	Delta P (inches water column)	Gurley Air Flow (sec/100 cc/20 oz.) 0.1 $in.^2$ orifice)	Water Entry Pressure (inches water column)
Microglass fiber on cellulose support	E01008E	5.5 max (@ 28 CFM)	< 20.0	≥ 80
Microglass fiber on cellulose support	E01340-LP	4.6 max (@ 28 CFM)	< 20.0	≥ 100
Microglass fiber on cellulose support	BO70DW	8.5 Max (@ 28 CFM)	< 22.0	≥ 80
Microglass fiber on a woven glass fabric	TV20A45TST	25 max (@ 60CFM)	< 25.0	≥ 35
Microglass fiber on a fine glass cloth	TX40A30TST	5.4 (@ 60 CFM)	< 6.0	≥ 49

Ordering Information

Custom roll, sheet, and disc sizes available upon request. Please contact your local sales representative for additional information.

Part Number	Description	Pkg
XE1008SH8X10	Hydrophobic Glass Fiber E01008E, 8“ x 10“ sheet	1/pkg
XE1340SH8X10	Hydrophobic Glass Fiber E01340, 8“ x 10“ sheet	1/pkg
XB070DSH8X10	Hydrophobic Glass Fiber BO70DW, 8“ x 10“ sheet	1/pkg
XT028FSH8X10	Hydrophobic Glass Fiber TV20A45TST, 8“ x 10“ sheet	1/pkg
XT030CSH8X10	Hydrophobic Glass Fiber TX40A30TST, 8“ x 10“ sheet	1/pkg

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05/2022