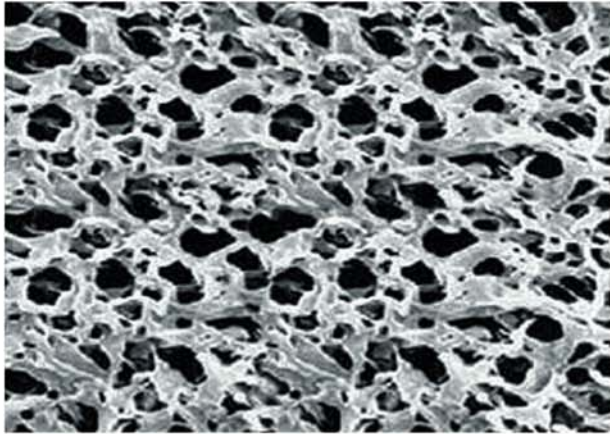


amcQualipor



Typical 0.2 μm

amcQualipor hydrophobic membrane is a versatile 100% high temperature resistant polyvinylidene difluoride membrane. It is designed to provide strength, flexibility and chemical compatibility to meet the exact and demanding requirements of chemical filtration applications.

amcQualipor membrane is available in 0.1, 0.2 and 0.45 μm pore sizes. Produced with no wetting agents, it is an ideal cost effective alternative to polytetrafluoroethylene membrane to prevent moisture blockage in venting and gas filtration.

Performance Advantages

- High resistance to moisture for venting provides no moisture blockage
- Better air flow rate than supported analogs permits faster pressure balance
- Broad chemical compatibility for filtering harsh chemicals that detract other membrane
- Materials can be used in wide range of chemical filtration

Features/Benefits

- High porosity and throughputs to minimize filter change during batch processing
- Versatile sterilizability to allow steam or autoclave sterilization
- Biosafety to assure product application in pharmaceuticals

Specifications

- Membrane Material**
Hydrophobic polyvinylidene difluoride
- Nominal Pore Sizes**
0.1, 0.2, 0.45 μm
- Maximum Operating Temperature-Water**
100°C (212°F)

Maximum Operating Temperature-Air
135°C (275°F)

Typical Weight
2.5 mg/cm²

Typical Thickness
0.08 mm (3.0 mils)

Extractables-Boiling Water
Trace

Sterilization
Provided non-sterile. May be autoclaveable and steam sterilizable if desired.

Minimum Bubble Point
0.1 μm: 26 psi (1.8 bar) – IPA
0.2 μm: 16 psi (1.1 bar) – IPA
0.45 μm: 9 psi (0.6 bar) – IPA

Minimum Water Breakthrough
0.1 μm: 56 psi (3.9 bar)
0.2 μm: 35 psi (2.5 bar)
0.45 μm: 19 psi (1.3 bar)

Typical Air Flow Rate
(lpm/cm² at 13.5 psi)
0.1 μm: 0.9
0.2 μm: 2.1
0.45 μm: 3.2

Biosafety
Passes USP Class VI-121°C Plastics Tests

Ordering Information

Product Number	Description	Packaging
QU010S1	0.1 μm, 20×20 cm sheet	25/pkg
QU010S2	0.1 μm, 26×50 cm sheet	25/pkg
QU010R1	0.1 μm, 26×300 cm sheet	1/pkg
QU010R01	0.1 μm, 50~200 m, linear length	1/pkg
QU020S1	0.2 μm, 20×20 cm sheet	25/pkg
QU020S2	0.2 μm, 26×50 cm sheet	25/pkg
QU020R1	0.2 μm, 26×300 cm sheet	1/pkg
QU020R01	0.2 μm, 50~200 m, linear length	1/pkg
QU045S1	0.45 μm, 20×20 cm sheet	25/pkg
QU045S2	0.45 μm, 26×50 cm sheet	25/pkg
QU045R1	0.45 μm, 26×300 cm sheet	1/pkg
QU045R01	0.45 μm, 50~200 m, linear length	1/pkg

amcQualipor Chemical Compatibility

Acids	Acetic acid, glacial	R
	Acetic acid (90%)	R
	Acetic acid (30%)	R
	Acetic acid (10%)	R
	Hydrochloric acid, conc. (35%)	R
	Hydrochloric acid, 6N (20%)	R
	Hydrochloric acid, 1N (3.3%)	R
	Nitric acid, conc. (67%)	NR
	Sulfuric acid, conc. (96%)	-
Alcohols	Amyl alcohol	-
	Benzyl alcohol	-
	Butanol	R
	Ethanol	R
	Isopropanol	R
	Methanol	R
	Aromatic Hydrocarbons	Benzene
Xylene		L
Bases	Ammonium hydroxide, 6N (11.4%)	L
	Ammonium hydroxide, 3N (5.7%)	-
	Potassium hydroxide, 3N (15%)	-
	Sodium hydroxide, 6N (22%)	NR
	Sodium hydroxide, 3N (11%)	NR
Esters	Amyl acetate	-
	Butyl acetate	-
	Cellosolve acetate	R
	Isopropyl acetate	-
	Methyl acetate	-
Ethers	Ethyl ether	R
	Tetrahydrofuran	-
Glycols	Ethylene glycol	R
	Glycerol	R
	Propylene glycol	R

Halogenated Hydrocarbons	Carbon tetrachloride	L
	Chloroform	R
	Ethylene dichloride	NR
	Methylene choride	R
Ketones	Tetrachloroethylene	NR
	Cyclohexanone	L
Miscellaneous	Methyl isobutyl ketone	L
	Aniline	R
	Formaldehyde, 37%	R
	Formaldehyde, 4%	R
	Hexane, dry	R
Oils	Kerosene	R
	Pyridine	R
	Cottonseed oil	R
	Peanut oil	R

R: Resistant

No significant change was observed in flow rate or bubble point of the membrane, nor visible indication of chemical attack.

L: Limited Resistance

Moderate changes in physical properties or dimensions of the membrane were observed. The filter may be suitable for short term, noncritical use.

NR: Not Recommended

The membrane is basically unstable. In most cases, extensive shrinkage or swelling occurs. The filter may gradually weaken or partially dissolve after extended exposure.

--: Insufficient Data

* In addition to standard sizes, amcQualipor of all pore sizes can be cut to size to suit your specifications. For information on special-sized cuts, please contact us.