



RENAL CARE

Hollow Fiber Dialyzer

01

PF Series

Polypropylene Housing (BPA free)

02

P Series

Polycarbonate Housing

Vital Healthcare Sdn. Bhd.

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PF/HF Series

- BPA-free Membrane
- BPA-free Housing
- Irradiation Sterilization

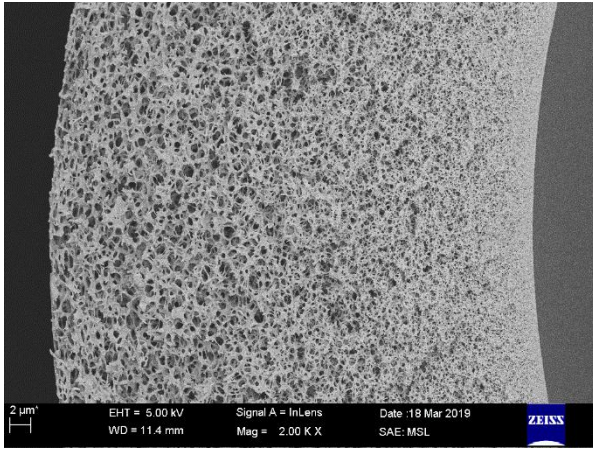


• Middle Flux
V-14LF

Model		V-14LF			V-16LF			V-18LF			V-20LF			V-22LF			V-24LF		
QB(mL/min)		200	300	400	200	300	400	200	300	400	200	300	400	200	300	400	200	300	400
Clearance (mL/min)	Urea	190	252	280	192	260	289	194	267	300	195	275	310	196	284	320	197	293	329
	Creatinine	182	233	262	185	246	277	188	257	289	191	270	299	195	281	312	197	289	323
	Phosphate	180	227	267	186	239	278	191	249	292	193	260	305	196	271	317	198	280	328
	Vitamin.B12	115	131	141	124	147	157	131	161	174	139	176	187	147	190	201	156	201	215



Features of VITAL Polyethersulfone Membrane



Superior mechanical strength:

- higher mechanical strength compared to Polysulfone
- withstands high-pressure physical cleaning process such as gas backwashing

Superior chemical resistance:

- highest levels achieved among amorphous resins for stress cracking resistance

Low protein adsorption:

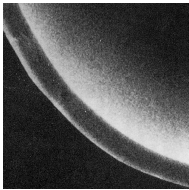
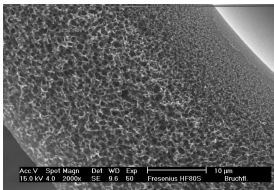
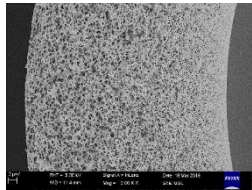
- resists adsorption of protein, surfactants, and polysaccharides

Comparison of Membranes Wall Thickness

Dialyzer	VITAL Series	Gambro 14L/17L/21L	Bellco BLS14/17SD	Asahi REXEED-LC	Fresenius F6HPS/F7HPS
Wall Thickness(μm)	40	50	35	45	40

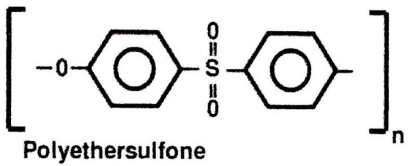
Wall Thickness	Mechanical Strength	Higher Flux
Thicker	Better	Harder to achieve
Thinner	Worse	Easier to achieve

Membrane Materials Comparison

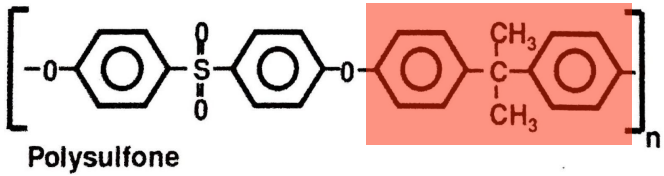


	Polyethersulfone	Polysulfone	Cellulosic
Mechanical strength	Good	Good	Acceptable
Flexibility	Good	Acceptable	Acceptable
Chemical resistance	Good	Good	Acceptable
Pore diameter control	Good	Good	Good
Hydrophilicity	Acceptable	Acceptable	Good
Low protein adsorption	Good	Acceptable	Acceptable

Polyethersulfone Membrane



Polysulfone Membrane



Bis-phenol A (BPA)

