



ION EXCHANGE MEMBRANE

A film with cationic or anionic functional groups introduced into a polymer matrix, which is a functionalized polymeric membrane that can selectively permeate anions and cations.

✓	ED (Electrodialysis)
✓	CDI (Capacitive deionization)
✓	EDI (Electrodeionization)
✓	RED (reverse electrodialysis)

Products	Homogeneous Membranes				Hetrogeneous Membranes		Perfluorinated Membranes	
	InnoSep -C	InnoSep -C102PF	InnoSep -A	InnoSep -A102PF	InnoSep -C217	InnoSep -A217	InnoPep -C108	InnoPep -C102PF
Ionic Type	Cation (-SO ₃ Na)	Cation (-SO ₃ Na)	Anion (-NR ₃ Br)	Anion (-NR ₃ Br)	Cation (-SO ₃ Na)	Anion (-NR ₃ Br)	Cation (-SO ₃ H)	Cation (-SO ₃ H)
Polymer Matrix	PPO	PPO	PPO	PPO	PPO	PPO	PFSA	PFSA
Reinforcing	PE seperator	PE seperator	PE seperator	PE seperator	PA66 mesh	PA66 mesh	-	PE seperator
Ion Exchange Capacity (meq./g-membrane)	1.4~1.7	1.1~1.2	1.5~1.8	1.1~1.2	1.6~1.8	1.6~1.8	1.1~1.2	0.6~0.7
Electric Resistance (Ω·cm²)	<2	<5	<2	<5	<5	<5	<1	<1
Thickness (μm)	120~130	20~25	120~130	20~25	170~180	170~180	70~80	20~25
Tensile Strength	>40	>40	>40	>40	>30	>30	>10	>40