



REINFORCEMENT MATERIALS FOR MEMBRANES

Applications

- Alkaline Electrolysis
- PEM Electrolysis
- AEM Electrolysis
- PEM Fuel Cell
- Humidifier
- Redoxflow Batteries

Key Benefits

- PFAS free materials
- Contribution to reduced membrane costing
- Contribution to higher membrane performance

POLYMER	PO	PPS	PESU / PBI
THICKNESS (µm)	20 - 200	30 - 150	>15
POROSITY (%)	70 - 90	60 - 80	85
DURABILITY	medium	high	very high
WEIGHT (g/m²)	5 - 100	25 - 100	1 - 3
PROCESS	Dry- / Wetlaid	Drylaid	Electrospun

Membranes in fuel cells, electrolyzers, batteries and beyond are having a big influence on system level. Reinforcement materials for membranes could play a major role to achieve the new requirements in development.