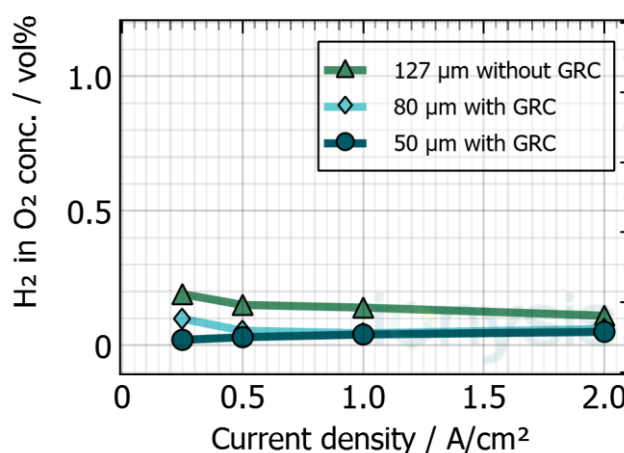
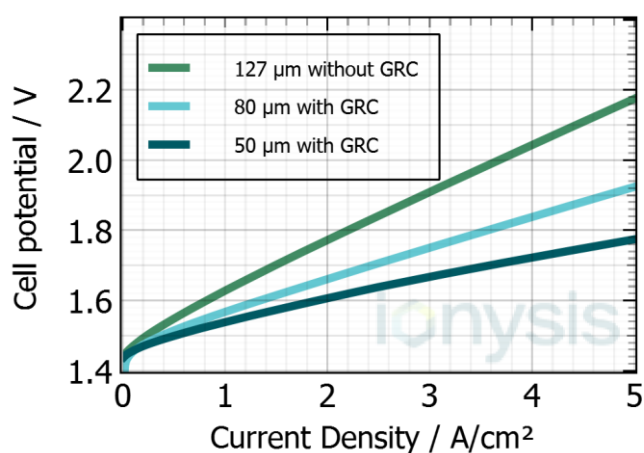


High-Quality Catalyst Coated Membranes (CCMs) for PEM Water Electrolysis

We offer high-quality subscale CCMs for universities, research institutes, test-bench manufacturers, and component developers reliable, standardized testing. Loadings, membranes and gas recombination catalyst (GRC) layer integration can be adapted to your needs.



Tested at 80°C, ambient pressure, 4 cm² active area, 0.2 mg_{Pt}/cm² cathode loading and 0.5 mg_{Ir}/cm² anode loading.

Specifications

Substrate	State-of-the-art PFSA membranes with and without GRC available
Cathode	Pt/C, 0.1 – 0.4 mg _{Pt} /cm²
Anode	IrO _x , 0.2 – 1.5 mg _{Ir} /cm²
Thickness	127 µm, 80 µm or 50 µm
Active area	Standard formats up to 100 cm², larger geometries upon request
Pressure	Up to 40 bar differential pressure

Performance

Performance (BOL)	At 80°C, ambient pressure
127 µm	1.95 V at 3 A/cm²
80 µm	1.75 V at 3 A/cm²
50 µm	1.67 V at 3 A/cm²
Durability	< 10 µV/h at 4 A/cm²
H ₂ in O ₂	At 80°C, ambient pressure
127 µm	0.15 vol% at 0.5 A/cm²
80 µm	0.05 vol% at 0.5 A/cm²
50 µm	0.03 vol% at 0.5 A/cm²

Request the product now:



Handling recommendations

The CCMs can be used as received. No washing steps or conditioning required. We recommend handling the CCM wearing gloves to prevent contamination. Store the CCM in a sealed bag or container, out of direct sunlight, in a climate-controlled environment. For more information, please refer to the safety datasheet and instructions for use.

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