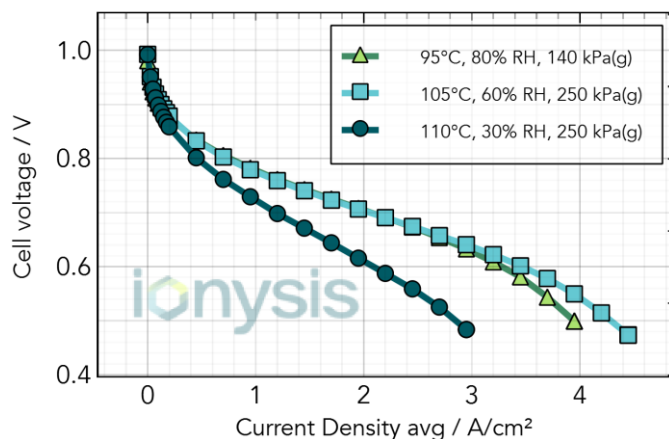
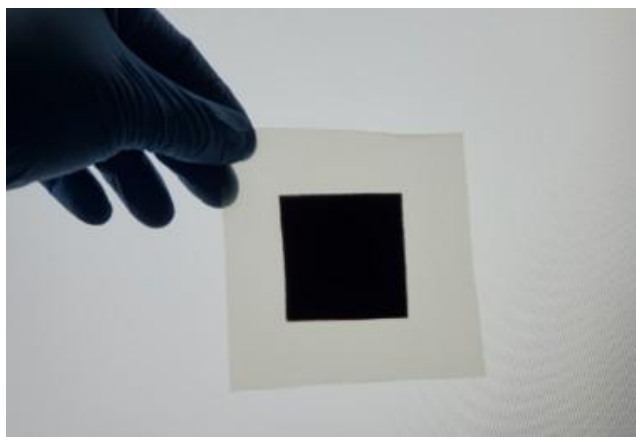


PEMFC CCMs for intermediate temperature operation

High-performance catalyst-coated membranes (CCMs) for PEM fuel cells, optimized for intermediate temperature operation in demanding applications up to 120 °C. Validated up to full-size test platforms at a leading automotive OEM and available in customizable designs to meet customer requirements.



4 cm² single-cell, tested at 95°C, 80% RH, 105°C, 60% RH, and 110°C, 30% RH, and 0.25/1 slpm H₂/air.

Specifications

Layout	CCM, 5-layer, 7-layer MEA
Membrane/ Electrode ionomer	Hydrocarbon or PFSA according to customer specifications
Catalyst	Anode: 0.05 – 0.1 mg _{Pt} /cm² Cathode: 0.2 – 0.8 mg _{Pt} /cm² according to customer specification
Active area	CCM sheets, up to 400 cm², Special geometries upon request

Performance

Performance (BOL)	> 0.6 V at 2 A/cm² (30% RH)
Temperature	80 - 120°C
Relative humidities	30 - 100% RH
Pressure	Ambient to 250 kPa(g)

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.

Disclaimer: This information, along with any recommendations is provided in good faith and is believed to be accurate as of the preparation date. Recipients are responsible for determining the suitability of this information and recommendations for their specific purposes. Under no circumstances shall ionysis be liable for any damages or losses of any kind arising from the use of or reliance on this information and recommendations. IONYSIS EXPRESSLY DISCLAIMS ALL REPRESENTATIONS AND WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE REGARDING ANY INFORMATION OR RECOMMENDATIONS PROVIDED. References to trade names of other companies do not constitute a recommendation or endorsement of the associated products.