

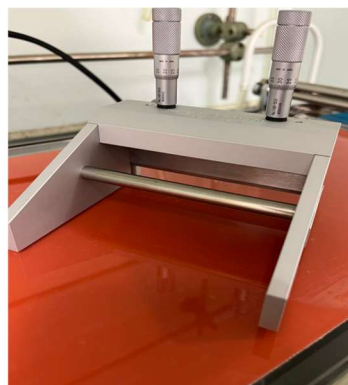
Supporting data

Anion exchange membranes reinforced with polyethylene substrate for alkaline fuel cell applications

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Bar coater



Applicator

Figure S1. Photos of bar coater and applicator used in the reinforcement process.

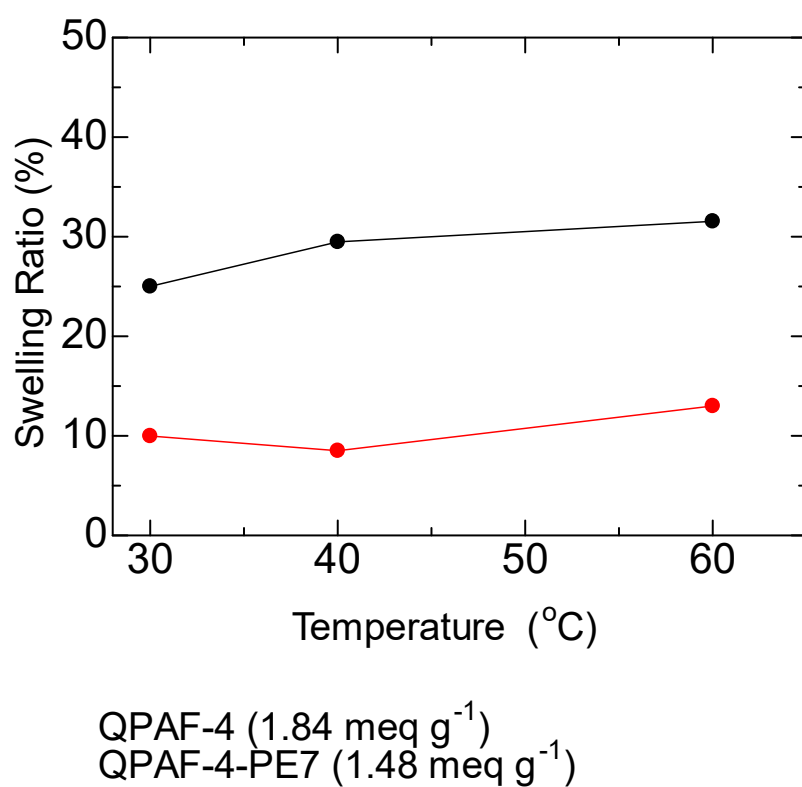


Figure S2. Dimensional stability of QPAF-4-PE membrane as a function of temperature.

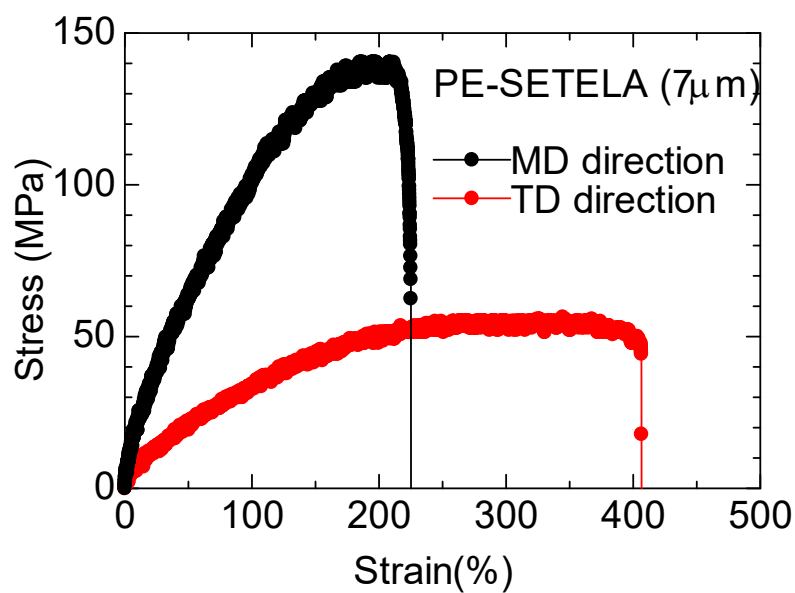


Figure S3. Stress-strain curves of porous PE substrate.

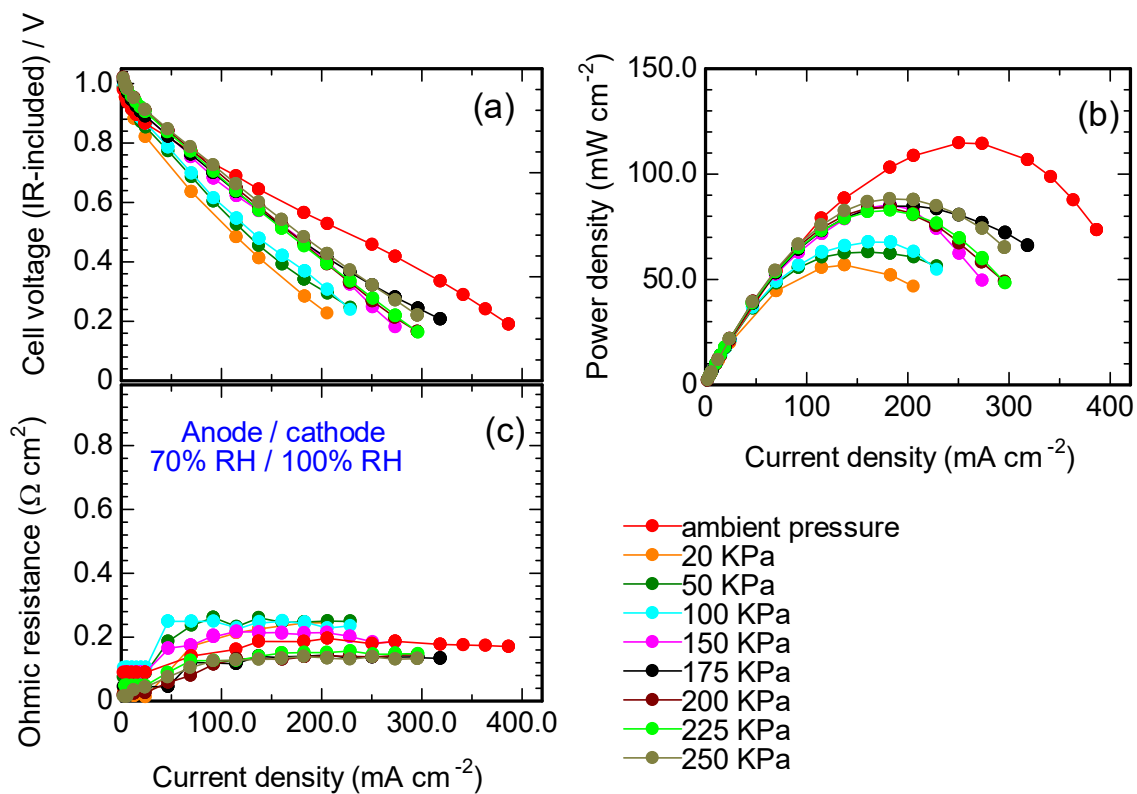


Figure S4. Polarization curves, power densities and ohmic resistance of QPAF-4-PE membrane under different back pressure on anode and cathode sides.

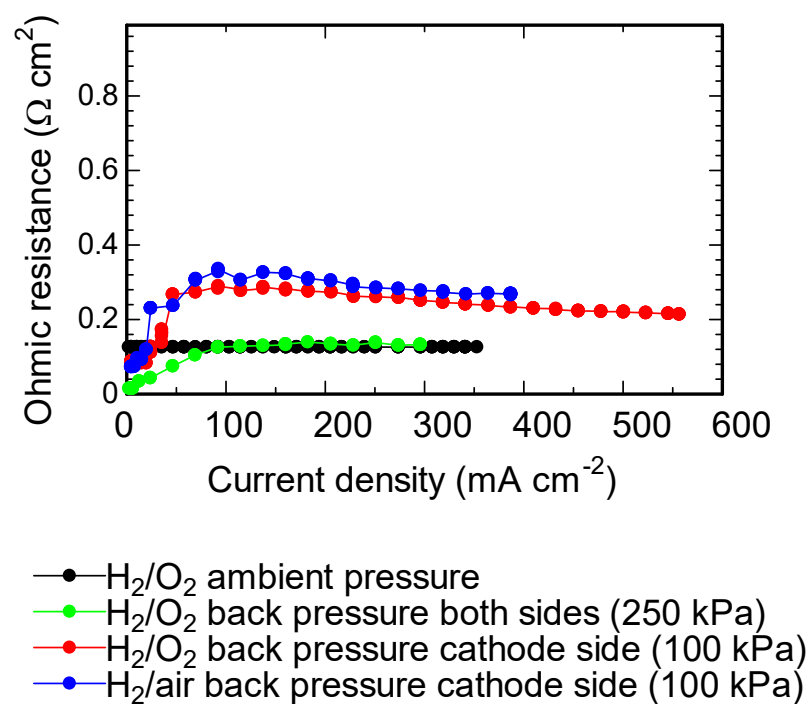


Figure S5. Ohmic resistance of the fuel cells using QPAF-4-PE membrane under different back pressure conditions.

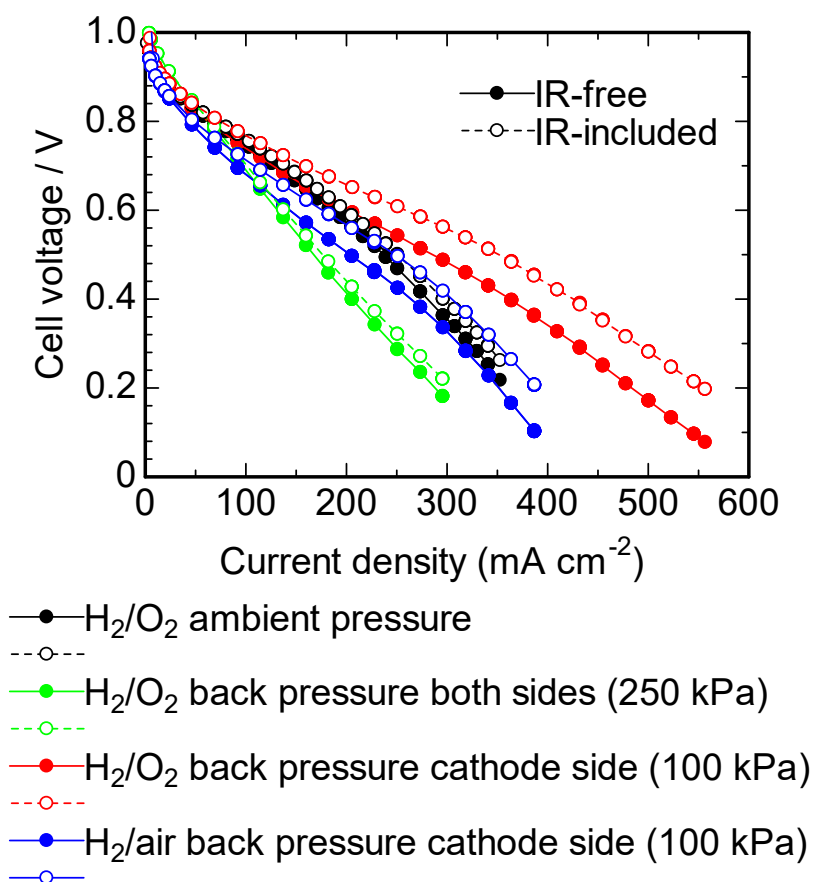


Figure S6. IR-free and IR-included polarization curves of the fuel cells using QPAF-4-PE membrane under different back pressure conditions.