# Supplementary

Table 1S. The values of specific ionic conductivity, surface resistance, diffusion permeability, apparent transport numbers, calculated specific power of the reverse electrodialysis unit, volume ion-exchange capacity for the membranes under study

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| --- | --- | --- | --- | --- | --- | --- |
| Sample | $σ\_{Na^{+}}^{25°}$ (0.5 M NaCl), mS cm−1 | Rs, Ω cm2 | PNaCl, cm2 s−1 | t+app | Pgross, W m−2 | Q,mmole cm3 |
| GCM-0-29 | 10.5 | 0.61 | 1.0E-7 | 0.958 | 0.90 | 1.2 |
| GCM-0-34 | 11.6 | 0.54 | 1.4E-07 | 0.937 | 0.87 | 1.2 |
| GCM-0-42 | 17.2 | 0.40 | 2.1E-07 | 0.935 | 0.88 | 1.2 |
| GCM-0-58 | 25.3 | 0.31 | 4.5E-07 | 0.889 | 0.81 | 1.1 |
| GCM-0-60 | 25.9 | 0.27 | 5.2E-07 | 0.870 | 0.78 | 1.2 |
| GCM-0-63 | 27.2 | 0.28 | 5.5E-07 | 0.870 | 0.78 | 1.2 |
| GCM-0-71 | 25.1 | 0.32 | 5.0E-07 | 0.871 | 0.77 | 1.2 |
| GCM-0.5-33 | 12.5 | 0.54 | 1.1E-07 | 0.964 | 0.92 | 1.2 |
| GCM-0.5-45 | 19.6 | 0.41 | 4.0E-07 | 0.882 | 0.78 | 1.2 |
| GCM-1.5-50 | 16.7 | 0.48 | 2.0E-07 | 0.938 | 0.88 | 1.5 |
| GCM-2.5-30 | 5.1 | 1.29 | 3.30E-08 | 0.983 | 0.87 | 1.5 |
| GCM-2.5-70 | 20.3 | 0.37 | 2.30E-07 | 0.943 | 0.90 | 1.9 |
| GCM-2.5-120 | 24.2 | 0.34 | 2.30E-07 | 0.915 | 0.85 | 2,1 |
| GCM-3-51 | 13.9 | 0.52 | 1.1E-07 | 0.971 | 0.94 | 1.3 |
| GCM-5-85 | 12.7 | 0.56 | 4.6E-08 | 0.990 | 0.97 | 1.7 |
| commercial |  |
| CMH-PP | 7.1 | 8.53 | 3.3E-07 | 0.942 | 0.42 | - |
| MemFoil | 10.0 | 2.94 | 2.9E-07 | 0.946 | 0.67 | - |
| CEM T1 | 7.4 | 1.78 | 1.1E-07 | 0.958 | 0.78 | - |
| CMX | 7.0 | 2.60 | 1.9E-08 | 0.990 | 0.76 | - |