

Electronic Supplementary Information

A General Strategy to Enhance the Alkaline Stability of Anion Exchange Membranes

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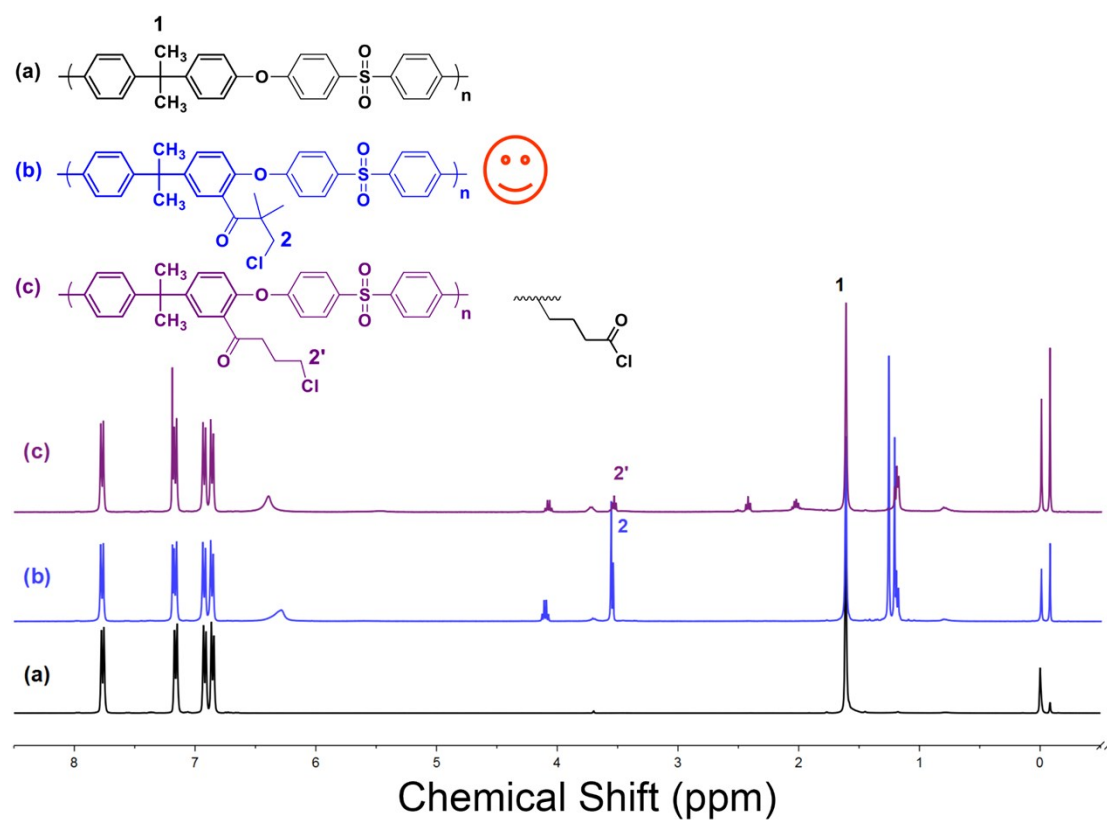


Fig. S1 ^1H -NMR comparison of **PSf** (a), **PSf-DPC** (b) and **PSf-BC** (c). For **PSf-BC**, almost no characteristic peak of chloromethylene (**2**) group could be found.

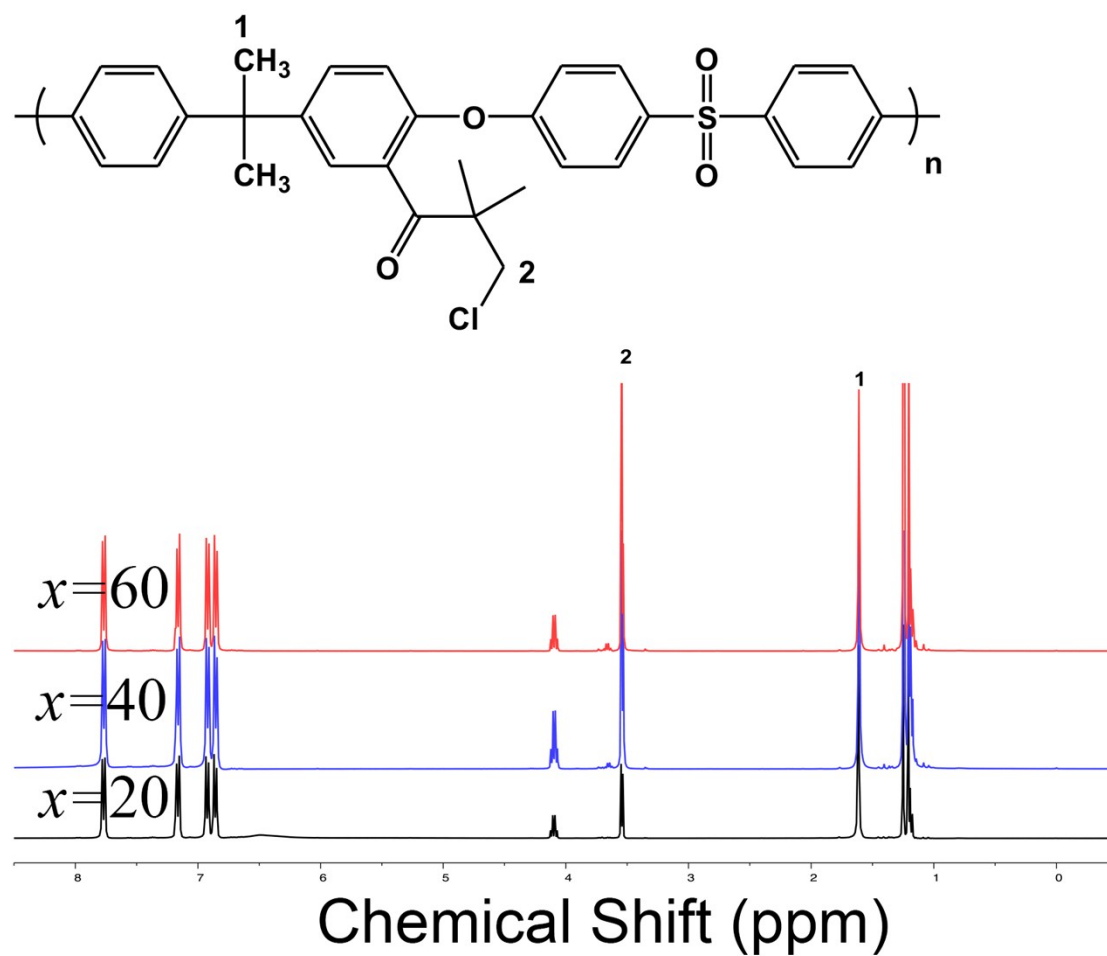


Fig. S2 ^1H -NMR comparison of **PSf-DPC- x** . DoFs were calculated by peak **1** and peak **2**, which correspond to methyl group in PSf and chloromethylene in side chain, respectively.

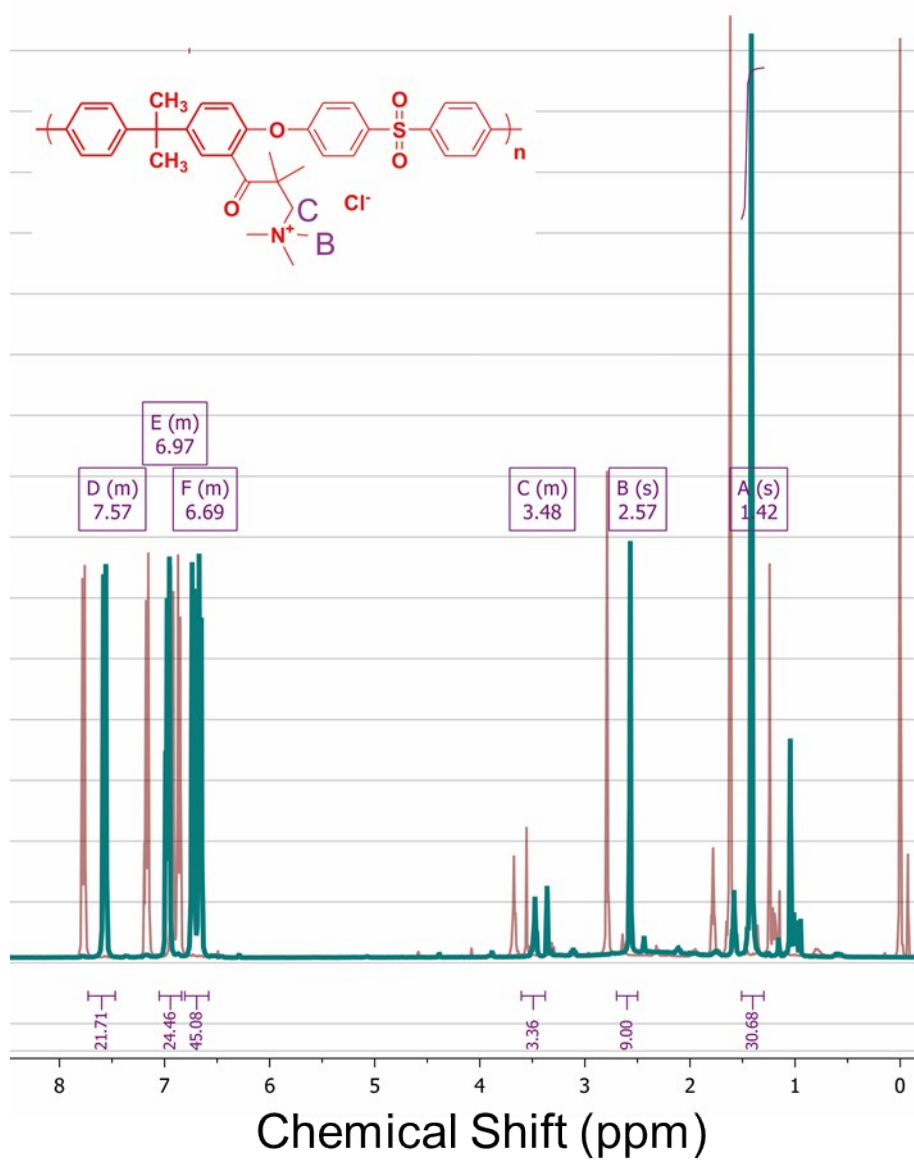


Fig. S3 $^1\text{H-NMR}$ comparison of fresh **PSf-DPC-TA-40-OH** and aged sample that after the 10-day alkaline stability test