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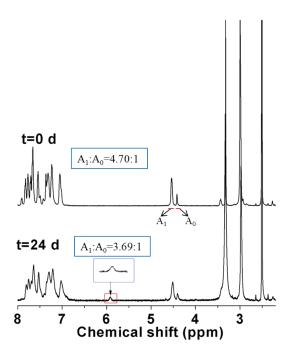


Fig S1. ¹H NMR spectrum of AEMs based from QPEEK-TMA in OH- form before and after storage in 1 M NaOH at 60 °C for 24 days.

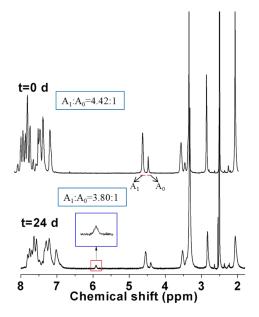


Fig S2. 1 H NMR spectrum of AEMs based from QPEEK-MPY in OH- form before and after storage in 1 M NaOH at 60 $^{\circ}$ C for 24 days.

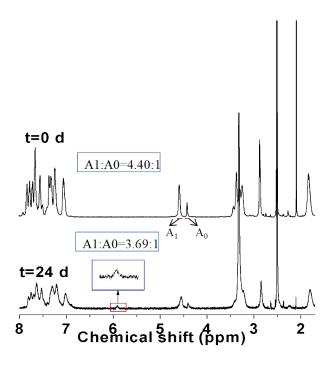


Fig S3. ¹H NMR spectrum of AEMs based from QPEEK-MPRD in OH- form before and after storage in 1 M NaOH at 60 °C for 24 days.