Supporting Information

Figure S1. $^1$H NMR of FDCA (Solvent: DMSO-$_d_6$).

Figure S2. $^{13}$C NMR of FDCA (Solvent: DMSO-$_d_6$).

Figure S3. Autoclave used for prepolymerization.

Figure S4. The rotary evaporator in salt bath for SSP.

Figure S5. IR spectra of CO$_2$ from NIST.
Figure S6. IR spectra of 2-furoic acid from NIST.

Figure S7. IR spectra of furan from NIST.

Figure S8. IR spectra of water from NIST.
Figure S9. IR spectra of 1,10-decanediamine from NIST.

Figure S10. $^1$H NMR spectrum of PA10T/10F=7/3 (6.0-8.0 ppm).

Figure S11. 2D TOCSY spectrum of PA10T/10F=7/3 (full screen).

Figure S12. 2D HSQC spectrum of PA10T/10F=7/3 (full screen).

Figure S13. 2D HMBC spectrum of PA10T/10F=7/3 (full screen).
Figure S14. $^{13}$C NMR spectrum of PA10T/10F=7/3: (a) full screen; (b) furan moiety.

Figure S15. TGA curves of PA10T/10F copolyamides with different feeding ratio.