

Supporting information
for

Phase Separation in Electrospun Nanofiber
Depending on Crystallization Induced Self-
assembly

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¹H-NMR spectra

PPDO precursor: ¹H-NMR (CDCl₃, 400 MHz)

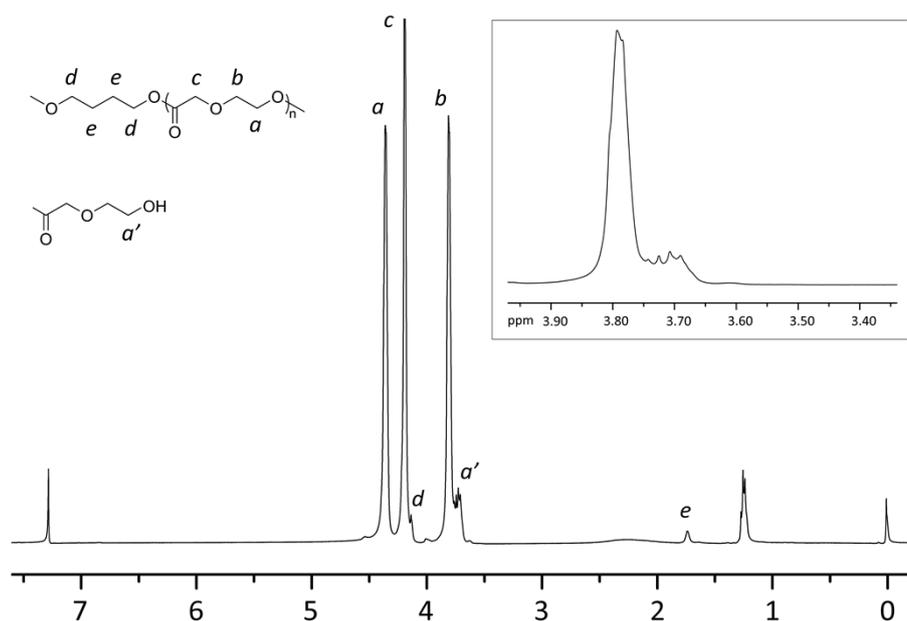


Fig. S1 $^1\text{H-NMR}$ spectrum of PPDO precursor

PPDO-b-PEG multi-block copolymer: $^1\text{H-NMR}$ (CDCl_3 , 400 MHz)

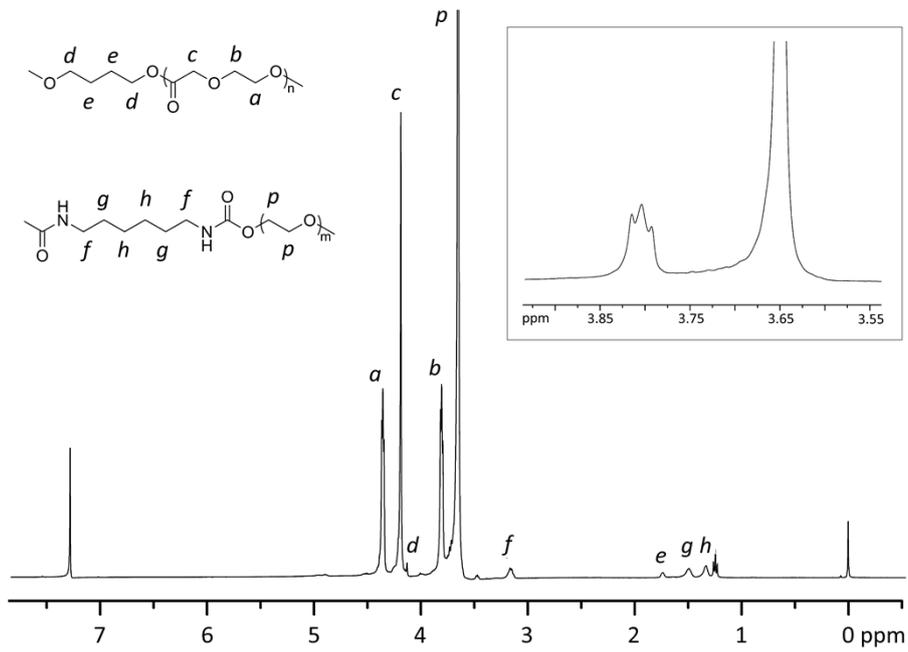


Fig. S2 $^1\text{H-NMR}$ spectrum of PPDO-b-PEG copolymer

FTIR spectrum of PPDO-b-PEG copolymer

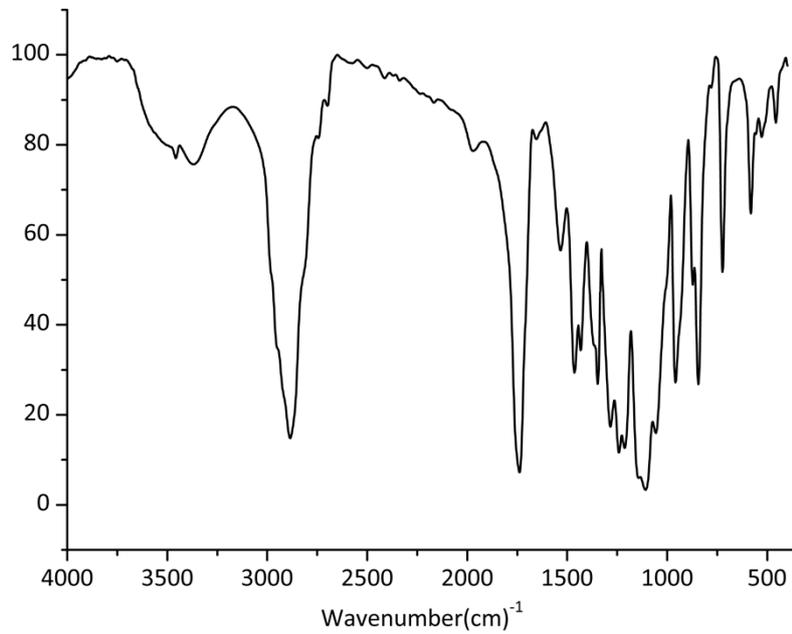


Fig. S3 The FTIR spectra of the PPDO-b-PEG multi-block copolymer

Selective etching of electrospun mat

The following equation was used to calculate the mass loss of the electrospun mat after

selective etching.

$$\text{Mass loss (\%)} = \frac{w_a - w_b}{w_a} \times 100\% \quad (\text{S1})$$

where w_a and w_b are the weight of the electrospinning mat before and after selective etching, respectively. The mass losses of the PLA/PPDO-b-PEG samples, calculated by weighting the samples before and after selectively removing PPDO-b-PEG, are 23.8 wt%, 23.4wt%, 25.5 wt%, 22.2wt%, respectively, and very close to the weight content of PPDO-b-PEG in spinning solution.

Table S1 mass loss of PLA/PPDO-b-PEG nanofiber after selective etching of PPDO-b-PEG

DMF content (%)	w_a g	w_b g	mass loss (%)
0	0.0336	0.0256	23.8
10	0.0368	0.0282	23.4
20	0.0276	0.0206	25.5
30	0.0406	0.0316	22.2