Supplementary Materials

**Shape-memory Nanofiber Meshes with Programmable Cell Orientation**

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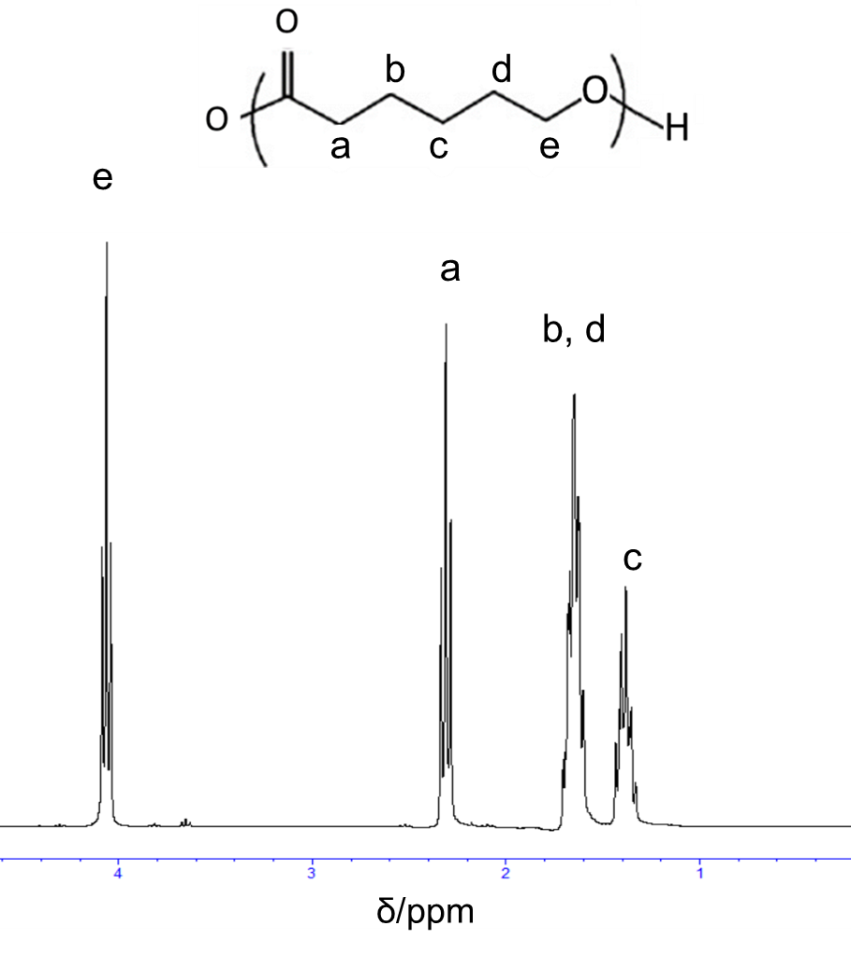
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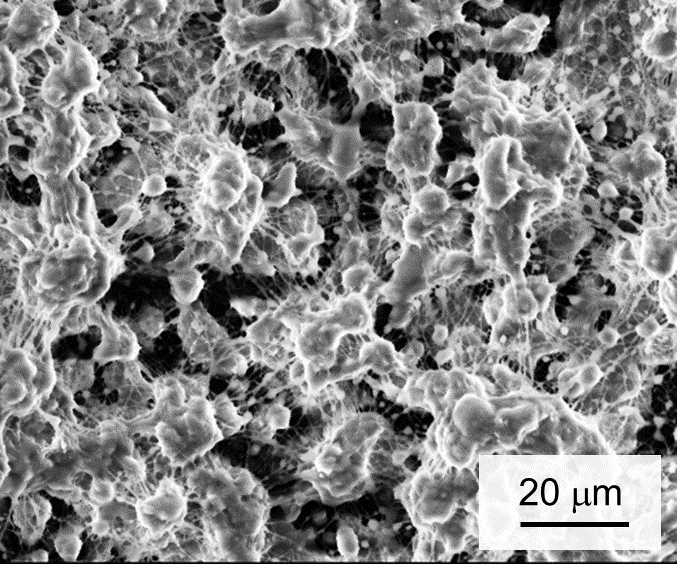
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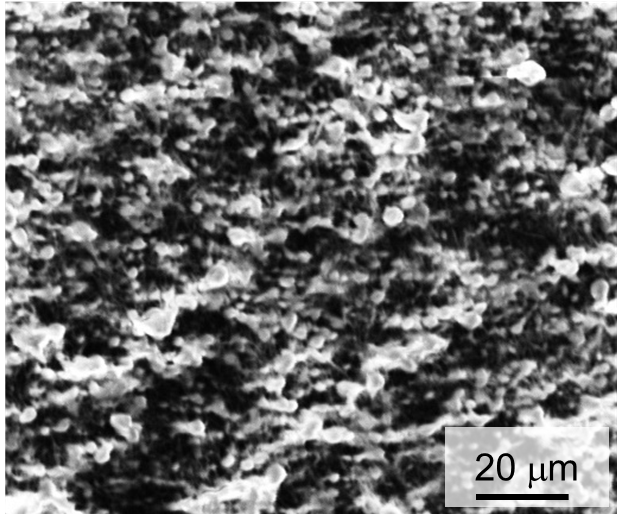
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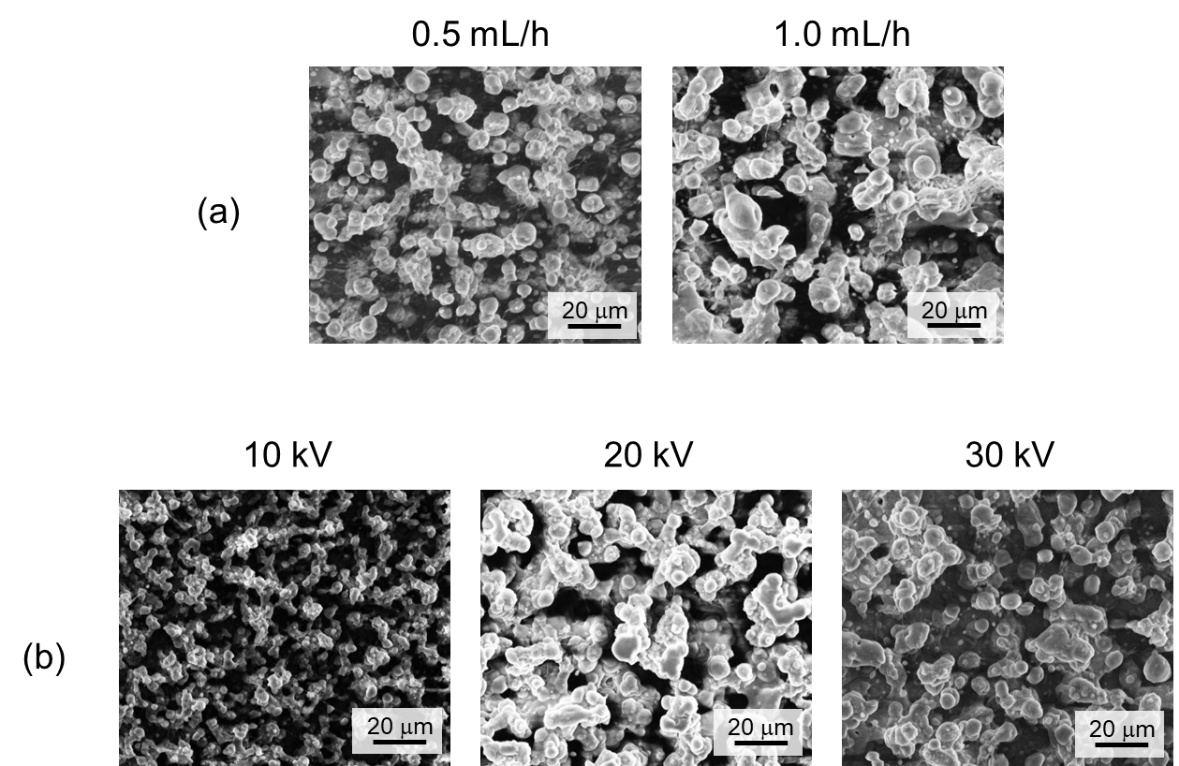
**Figure S1.** 1H-NMR spectrum of PCL.



**Figure S2.** SEM image of electrospun PCL with molecular weight of 5,000.



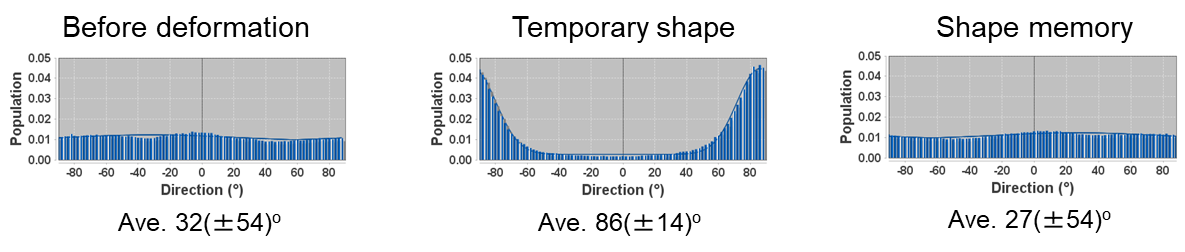
**Figure S3.** SEM image of electrospun fibers from PCL-21.3 (400× magnification).



**Figure S4.** SEM images of electrospun fibers from four-branched PCL with different flow rates (0.5 mL and 1.0 mL) and voltages (10, 20, and 30 kV).



**Figure S5.** PCL-21.3 film before and after heating at 80°C.



**Figure S6.** Orientation analysis of PCL-9.2 nanofibers from SEM images shown in Figure 4(a) before deformation, after deformation, and after shape memory recovery.

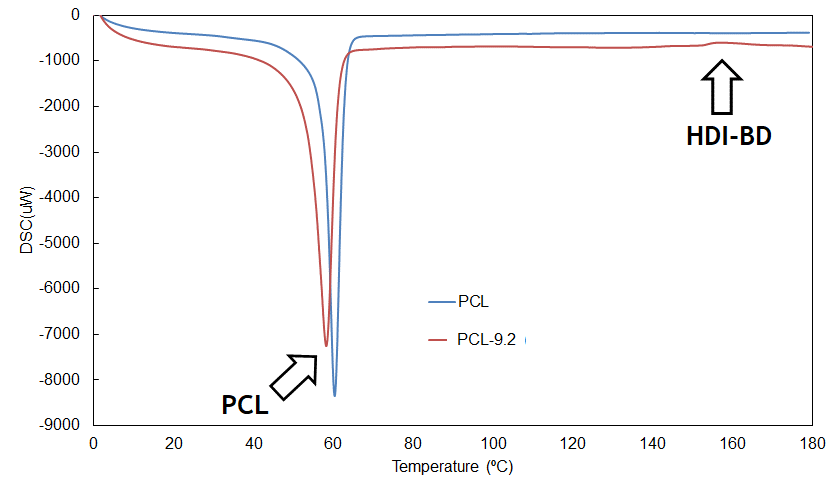
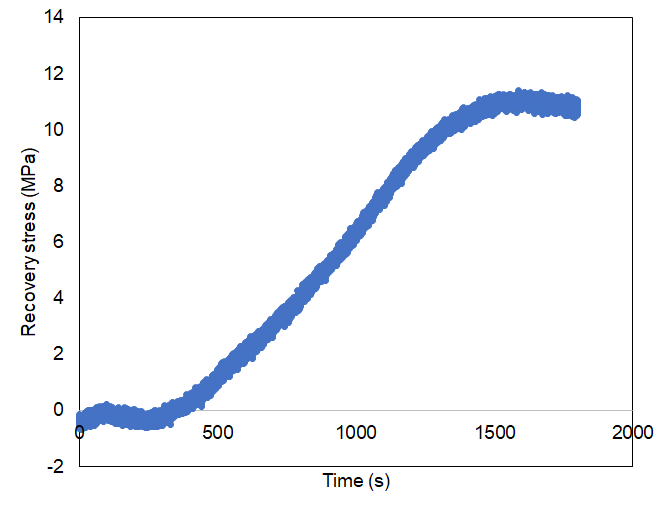


Figure S7. DSC curve of electrospun nanofiber of pure PCL and PCL-9.2.



**Figure S8.** Recovery stress of electrospun PCL-9.2 nanofiber mesh.