

Supporting information

Controllable distribution of conductive particles in polymer blends via bilayer structure design: a strategy to fabricate shape-memory composites with tunable electro-responsive properties

Yu Zheng, Jingxian Qin, Jiabin Shen* and Shaoyun Guo

Polymer Research Institute of Sichuan University, State Key Laboratory of Polymer Materials Engineering, Sichuan Provincial Engineering Laboratory of PLastic/Rubber Complex Processing Technology, Chengdu, Sichuan 610065, P. R. China

* Corresponding to: Jiabin Shen (Email: shenjb@scu.edu.cn)



Fig. S4 Image of the acetone etchant after soaking the TPU/PCL/MWCNT blending composite for 24 h.

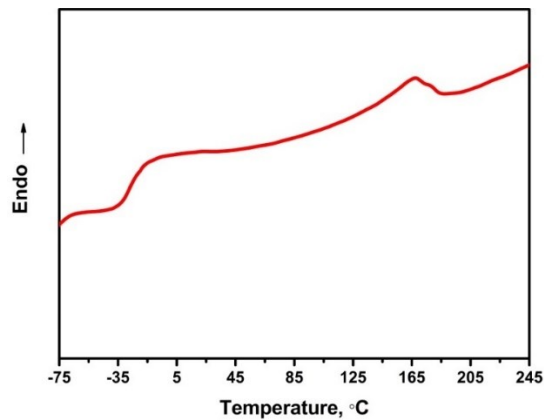


Fig. S5 DSC heating curve of TPU.

Video S1 The electro-responsive shape recovery progress of the cTPU5/PCL bilayer composite at 20V (MP4)

Video S2 The electro-responsive shape recovery progress of the TPU/cPCL5 bilayer composite at 5V (MP4)

Video S3 The electro-responsive shape recovery progress of the cTPU3/cPCL2 bilayer composite at 15V (MP4)

Video S4 The electro-responsive shape recovery progress of the cTPU3/cPCL2 bilayer composite at 10V (MP4)