

Structural design of polyurethane/poly (butylene succinate)/polycaprolactone compounds via multilayer-assembled strategy: achieving tunable triple-shape memory performances

Yu Zheng, Xiaoying Ji, Qingwen Wang, Jiabin Shen *, Shaoyun Guo *

Polymer Research Institute of Sichuan University, State Key Laboratory of Polymer
Materials Engineering, Chengdu, Sichuan 610065, P. R. China

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

nic7702@scu.edu.cn (Shaoyun Guo)

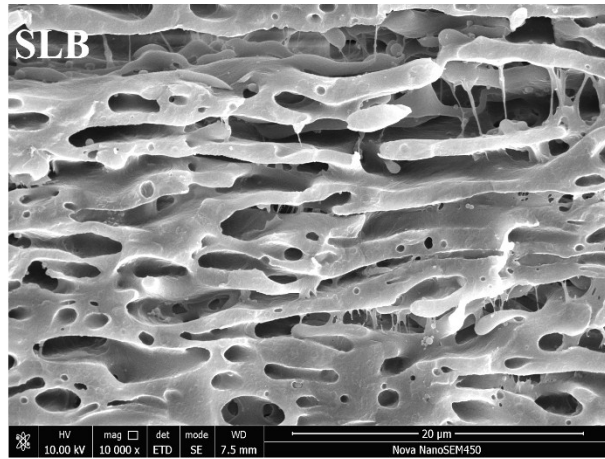


Fig. S1 SEM picture of SLB after selectively etching PCL.

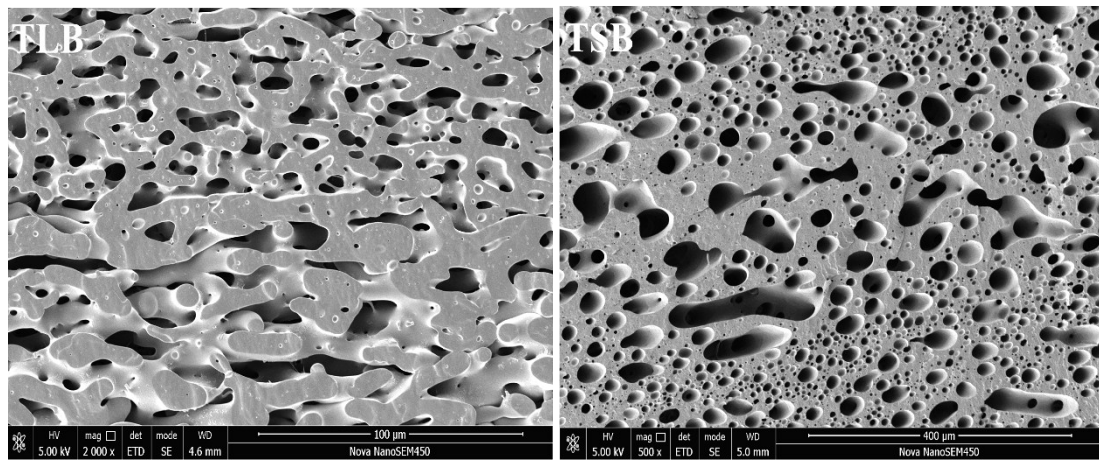


Fig. S2 SEM pictures of TLB and TSB after selectively etching PCL and PBS, respectively.

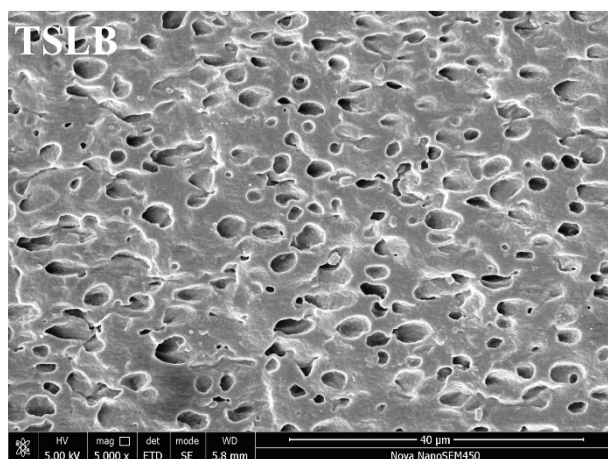


Fig. S3 SEM picture of TSLB after selectively etching PCL and PBS.

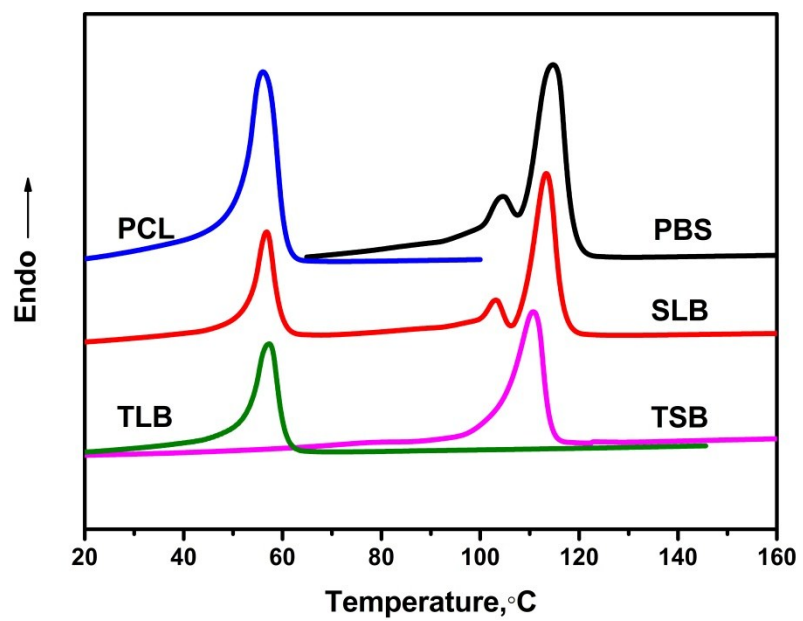


Fig. S4 DSC heating curves of PBS, PCL, SLB, TLB and TSB.

Table S1 The degrees of crystallizations of PCL and PBS in the blending and multilayer specimens calculated from the DSC curves.

Sample	TSLB	TSB/TLB	TPU/SLB
$X_{c,PCL}$	29.1%	27.0%	28.2%
$X_{c,PBS}$	54.1%	53.6%	55.4%

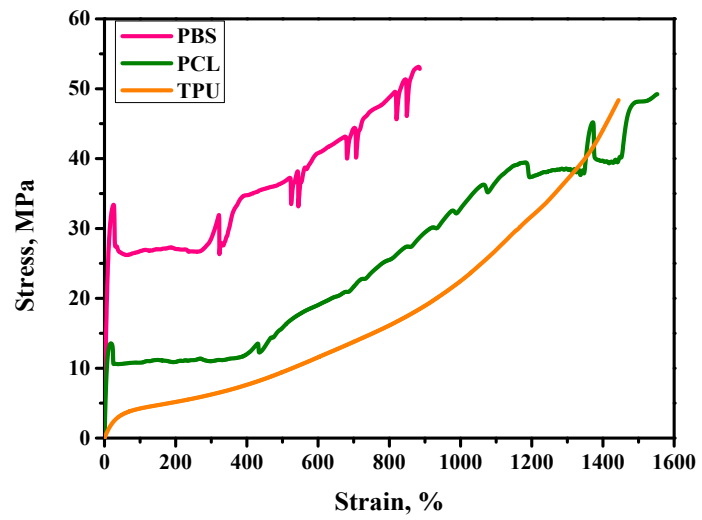


Fig. S5 Stress-strain curves of PBS, PCL and TPU.