

Supplementary Materials

Table S1. The method Log for dual-SME and triple-SME.

Method Log for dual-SME	Method Log for triple-SME
1: Force 0.003 N 2: Ramp 10.00°C/min to 65.00°C 3: Isothermal for 5.00 min 4: Data storage: On 5: Ramp strain 2.000 %/min to 10.000 % 6: Ramp 10.00°C/min to 20.00°C 7: Isothermal for 10.00 min 8: Force 0.003 N 9: Isothermal for 5.00 min 10: Ramp 10.00°C/min to 65.00°C 11: Isothermal for 45.00 min 12: Data storage: Off 13: End of method	1: Force 0.003 N 2: Ramp 10.00°C/min to 120.00°C 3: Isothermal for 2.00 min 4: Data storage: On 5: Ramp strain 2.000 %/min to 10.000 % 6: Ramp 10.00°C/min to 65.00°C 7: Isothermal for 2.00 min 8: Ramp strain 2.000 %/min to 25.000 % 9: Ramp 10.00°C/min to 20.00°C 10: Isothermal for 10.00 min 11: Force 0.003 N 12: Isothermal for 5.00 min 13: Ramp 10.00°C/min to 65.00°C 14: Isothermal for 30.00 min 15: Ramp 10.00°C/min to 120.00°C 16: Isothermal for 45.00 min 17: Data storage: Off 18: End of method

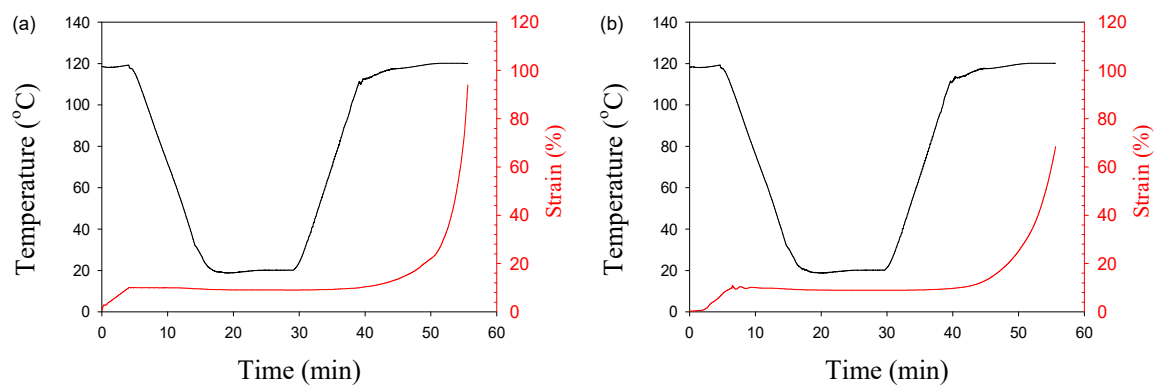


Figure S1: Temperature and strain of PLA/PBAT/CNFs blends (a) and in-situ generated composites (b) during one-way shape memory cycle. $T_d=120\text{ }^{\circ}\text{C}$. CNFs - 3 wt.%.