Supporting information for

Fabrication of Crosslinked Poly(L-lactic acid) with Enhanced Shape Memory Performance via γ-Ray Irradiation

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1. Experiment

Thermogravimetric analysis (TGA) was performed on thermogravimetric analyzer (TA, Q500). The samples were heated at a rate of 10 °C/min from 30°C to 650°C under nitrogen atmosphere. The thermal decomposition temperatures of starting (5% loss) and maximum were evaluated.

2. Figures

Table S1. The mechanical properties of PLLA SMPs at 80 °C

Sample	Elongation at break (%)	Strength at break (MPa)
Neat PLLA	1104±90.5	3.24±0.55
1 %-30 kGy	1086±56.9	12.2±1.87
3 %-30 kGy	750±65.0	24.5±2.09
5 %-30 kGy	580±45.8	21.0±1.76
10 %-30 kGy	432±49.8	18.1±1.43

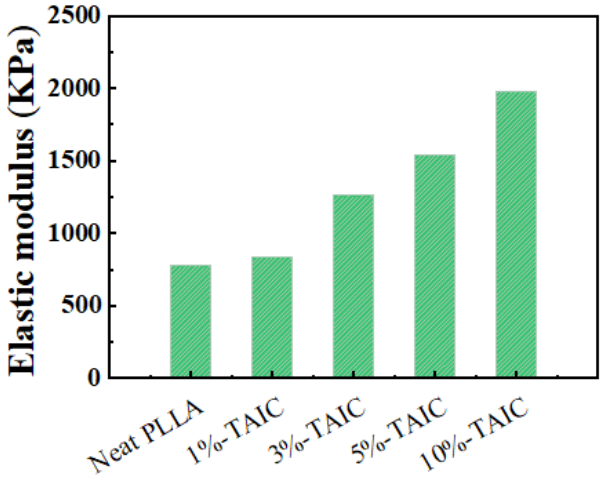


Figure. S1. The elasticity modulus of PLLA SMPs at 80 °C.

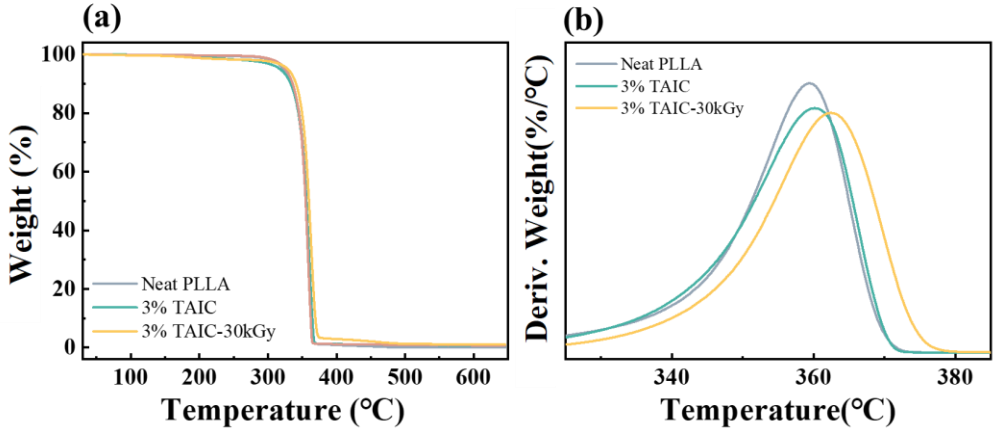


Figure. S2. The TGA curves (a) and DTG curves (b) of neat PLLA, PLLA/TAIC blend before and after irradiation.