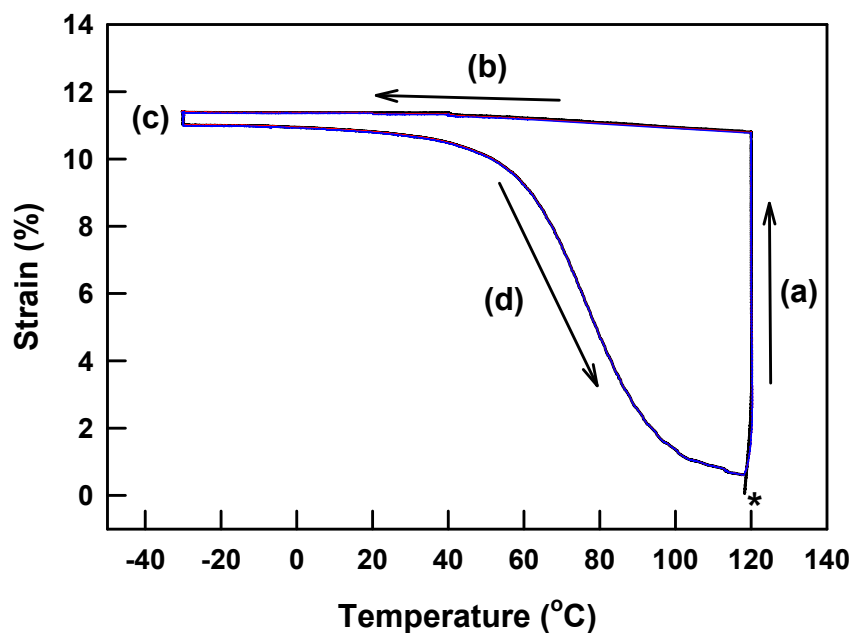


Supplementary Information

Supplementary Table 1. Fixing ratio (R_f) and recovery ratio (R_r) of PD-20CL, obtained from one-way shape memory cycles reported in Figure 1(b).

Cycles	R_f (N) (%)	R_r (N) (%)
1	97.7	95.9
2	97.5	99.2
3	97.5	99.5

Supplementary Figure 1. Two-dimensional one-way shape memory cycles in PD-20CL: (i) deformation, (ii) fixing, (iii) releasing, and (iv) recovery. The asterisk indicates the beginning of the shape memory cycles.



Supplementary Figure 2. Thermomechanical properties of MD-20CL. $T_g = 47\text{ }^\circ\text{C}$, obtained from the peak value of loss tangent ($\tan \delta$).

