

Supporting information

In order to compare with the mechanical properties of PGMA-functionalized CNTs, nanoindentation tests on PGMA were conducted for reference. Because polymer is a time-dependent material, linear viscoelastic analysis was used for properties extraction.¹ Figure S1 shows the Young's relaxation modulus of PGMA obtained from the viscoelastic analysis. The Young's moduli of as-deposited and annealed PGMA at 80s are 4.67 ± 0.015 GPa and 7.74 ± 0.08 GPa, respectively.

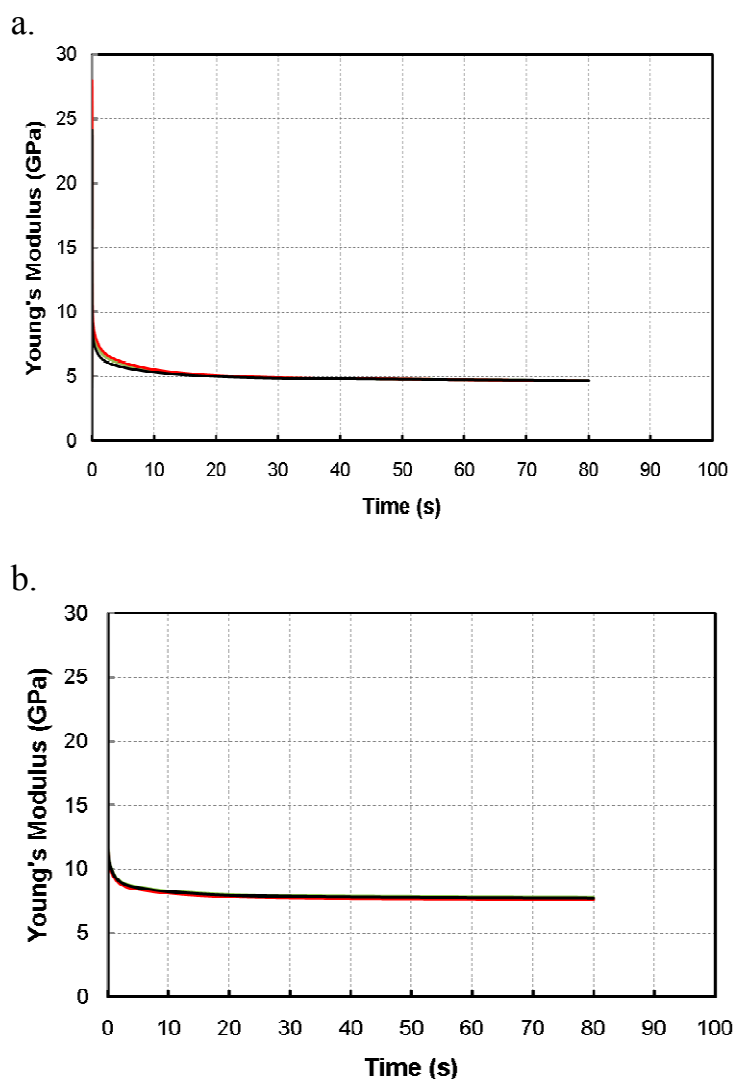


Figure S1 Young's Relaxation Modulus of (a) as-deposited PGMA and (b) annealed PGMA.

Reference:

[1] Lu, H., Wang, B., Ma, J., Huang, G., and Viswanathan, H.: Measurement of creep compliance of solid polymers by nanoindentation. *Mech. Time-Depend. Mater.* 7, 189–207 (2003)