

Supporting information

Tailored Viscoelasticity of Polymer Cellular Structure through Nanoscale Entanglement of Carbon Nanotube

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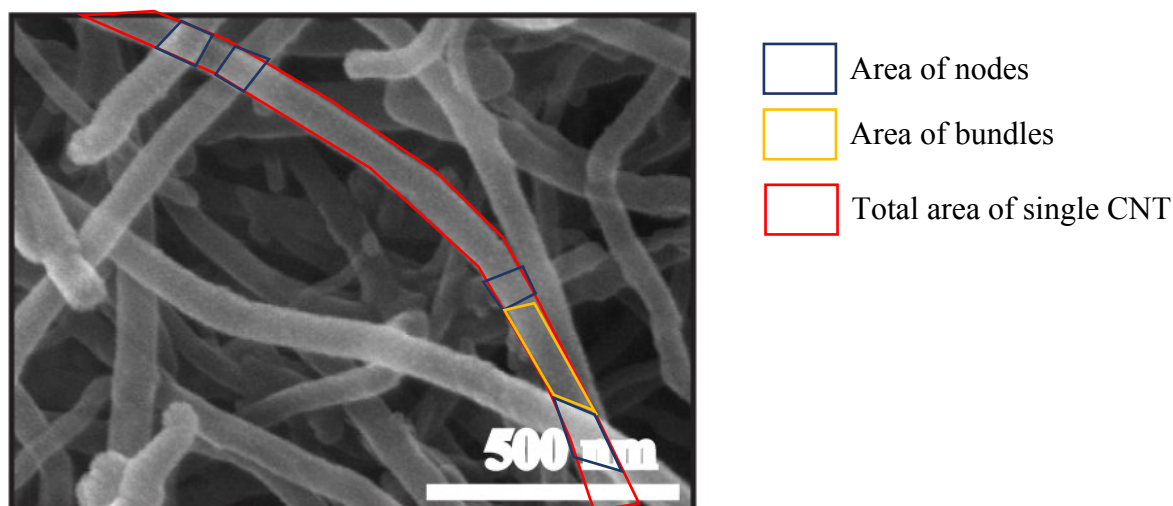


Fig. S1: Nodal, bundle and entanglement density calculation

Nodal density = (Total area of nodes connected to a single CNT/area of single CNT)

Bundle density = (Total area of bundles connected to a single CNT/area of single CNT)

Entanglement density = Nodal density + bundle density

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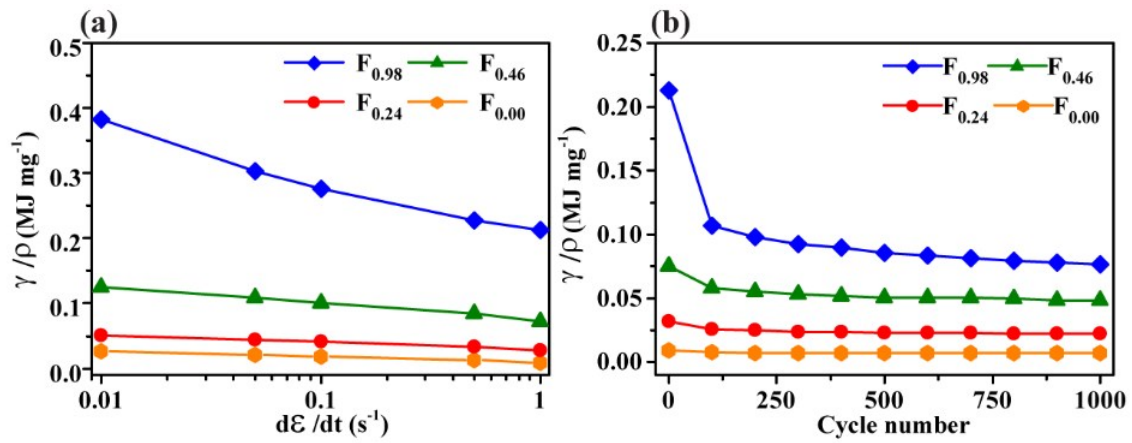


Fig. S2: (a) Strain dependency of energy loss and (b) cyclic energy loss.

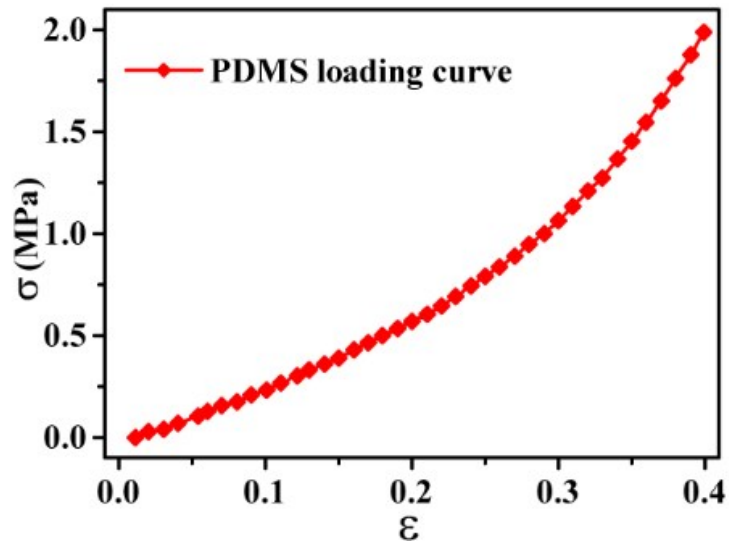


Fig. S3: Stress-strain plot of solid PDMS block for 40% compression.

From Ogden 1st order curve fitting μ and α were obtained 1.3 MPa and 9.22, respectively.