Electronic Supplementary Material (ESI) for Soft Matter

Electronic supplementary information:

Large deformation behavior and effective network chain density of swollen poly(*N*-isopropylacrylamide)-Laponite nanocomposite hydrogels

Tao Wang, Dan Liu, Cuixia Lian, Shudian Zheng, Xinxing Liu, and Zhen Tong*

Research Institute of Materials Science and State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

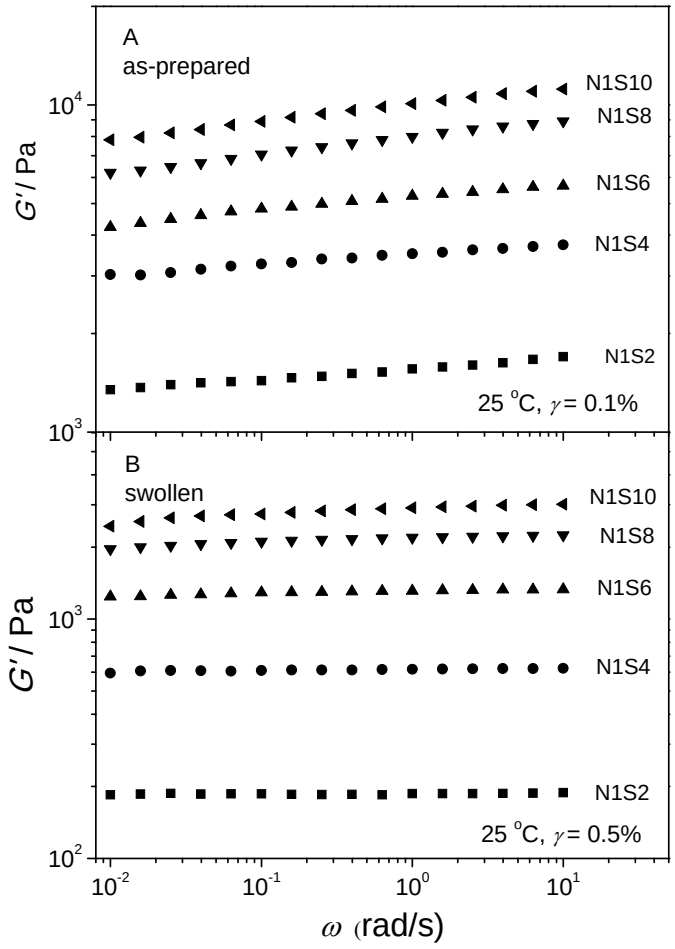

Fig. S1. Angular frequency ω dependence of storage modulus G' at 25 °C and indicated shear strain for the as-prepared (A) and swollen (B) PNIPAm NC gels.

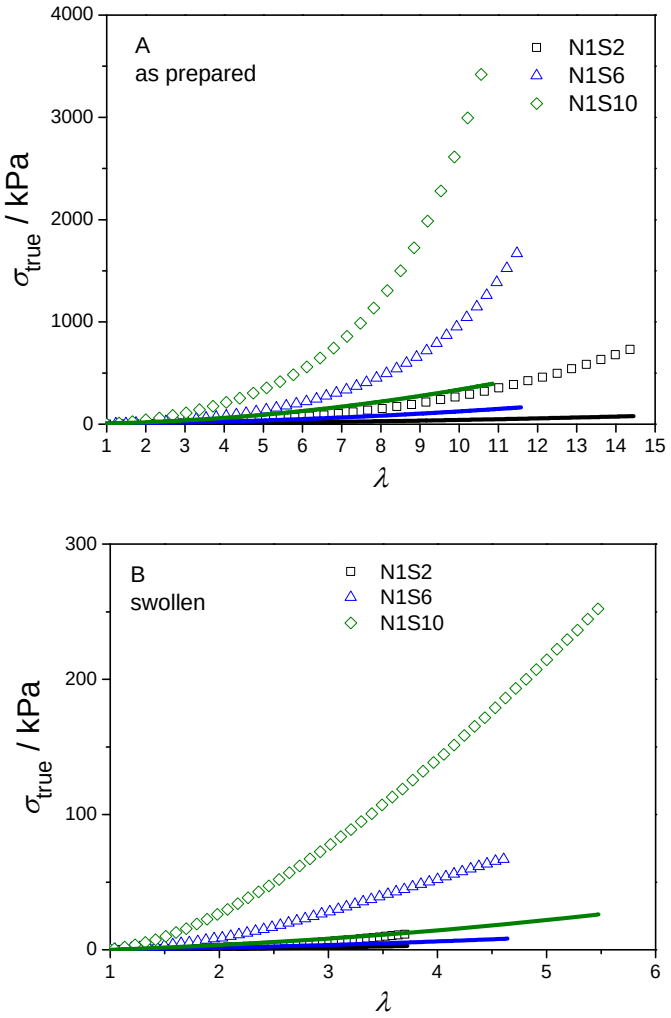

Fig. S2. Comparison of tensile true stress data with calculated curve (solid line) based on the Mooney-Rivlin equation (eq. 2) using the $2C_1$ and $2C_2$ values in Table 1 from compression data fitting for the as-prepared (A) and swollen (B) NC gels.

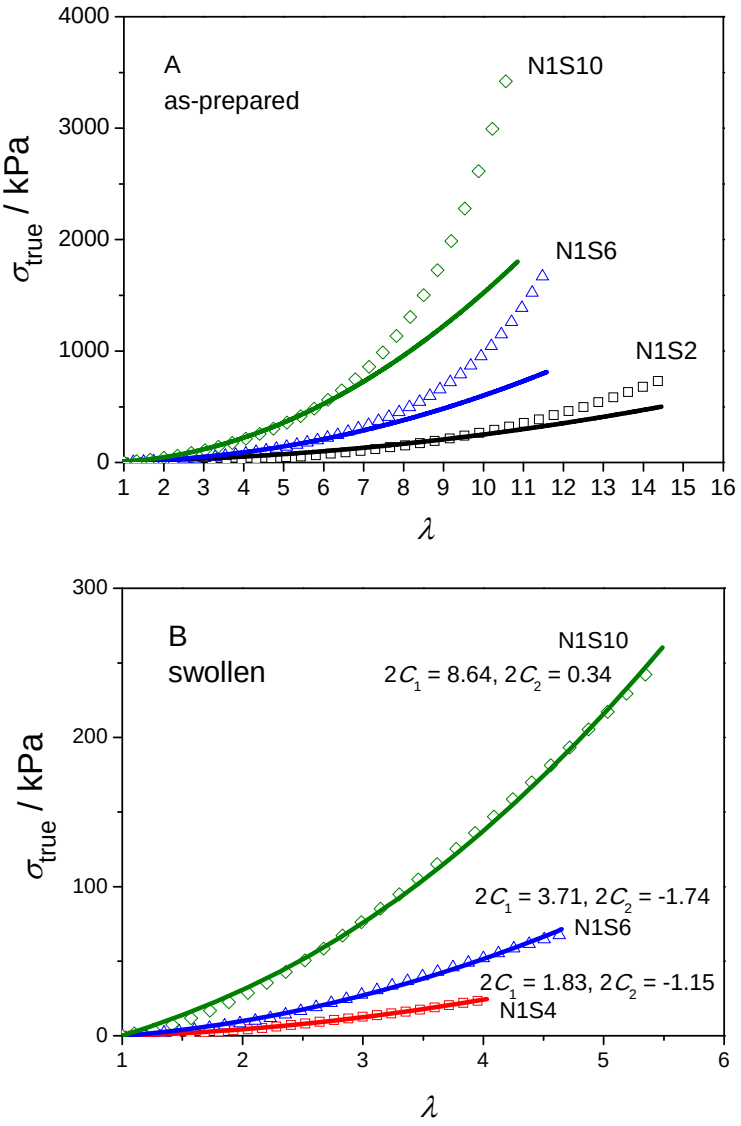

Fig. S3 Comparison of tensile true stress data with calculated curve (solid line) based on the Mooney-Rivlin equation (eq. 2) using indicated $2C_1$ and $2C_2$ values from fitting tensile data for the as-prepared (A) and swollen (B) NC gels.