

Supplementary Figures

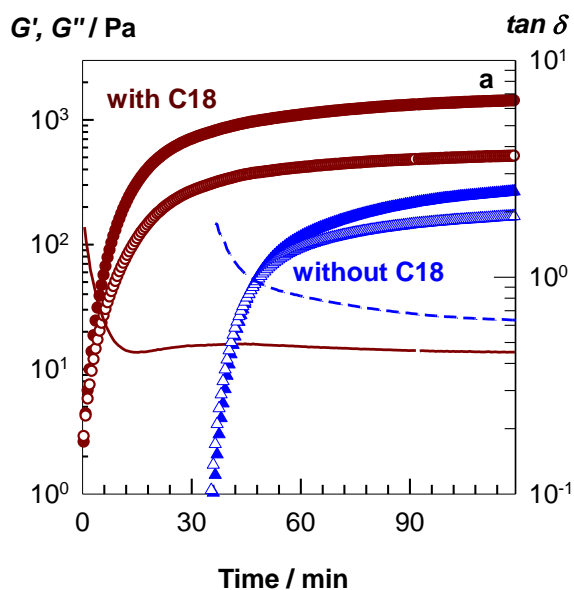


Fig. S1. G' (filled symbols), G'' (open symbols), and the loss factor $\tan \delta$ (lines) during the NIPAAm polymerization at 25 °C without and with 2 mol% C18 plotted against the reaction time. $\omega = 6.3 \text{ rad.s}^{-1}$. $C_o = 10\%$.

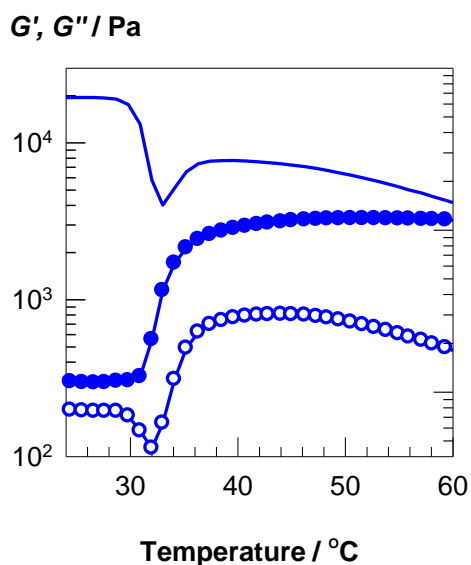


Fig. S2. G' (filled symbols), G'' (open symbols), and $\tan \delta$ (curves) of PNIPAAm solution in the micellar solution shown as a function of the temperature. $\omega = 6.3 \text{ rad/s}$. $\gamma_o = 0.01$. $C_o = 10\%$.

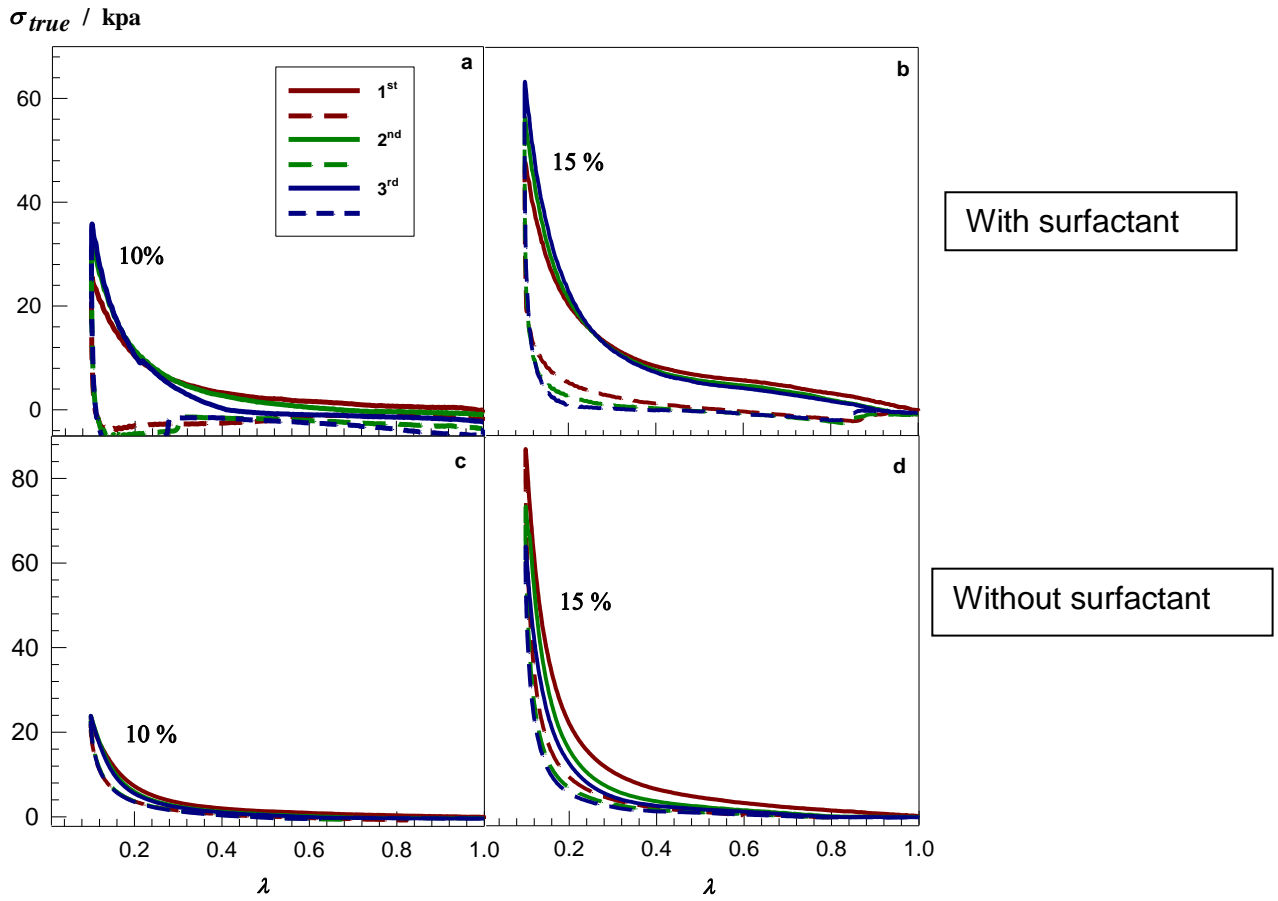


Fig. S3. σ_{true} vs λ curves from cyclic compression tests for hydrogels with (upper panel) and without surfactant (bottom panel). $C_o = 10$ (a, c) and 15% (b, d). Three successive loading / unloading cycles up to $\lambda_{max} = 0.10$ are shown.

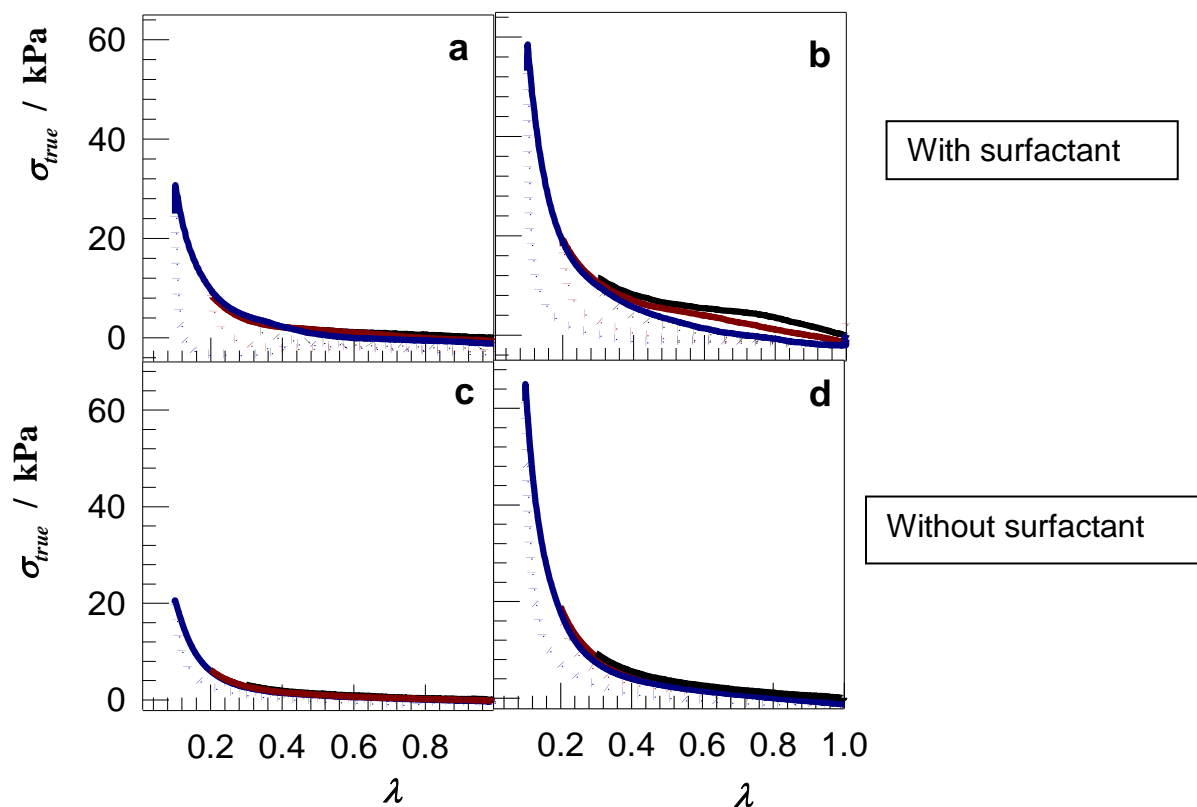


Fig. S4. σ_{true} vs λ curves of PNIPAAm hydrogels with (a, b) and without surfactant (c, d) from cyclic compression tests. The tests were conducted with increasing strain with a waiting time of 5 min between cycles. $Co = 10$ (a, c) and 15% (b, d).