

Supplementary Information

Figure S1. Confocal microscopy image of a viscoelastic solution of **1a** at a concentration of 5 wt% under neutral conditions. The scale bar corresponds to 50 μm .

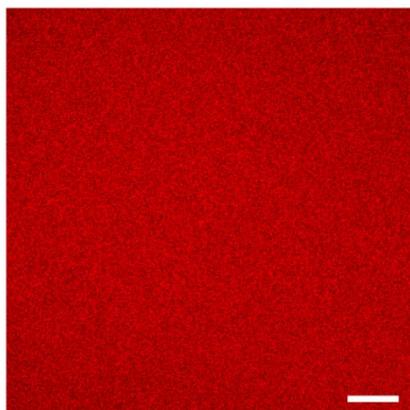


Figure S2. Small-angle X-ray scattering profiles of **1b** at (a) 5 wt %, (b) 15 wt % and (c) 20 wt % at 70 $^{\circ}\text{C}$ (black) and 2 days (red), 8 h (green) and 30 min (blue) after cooling back to room temperature.

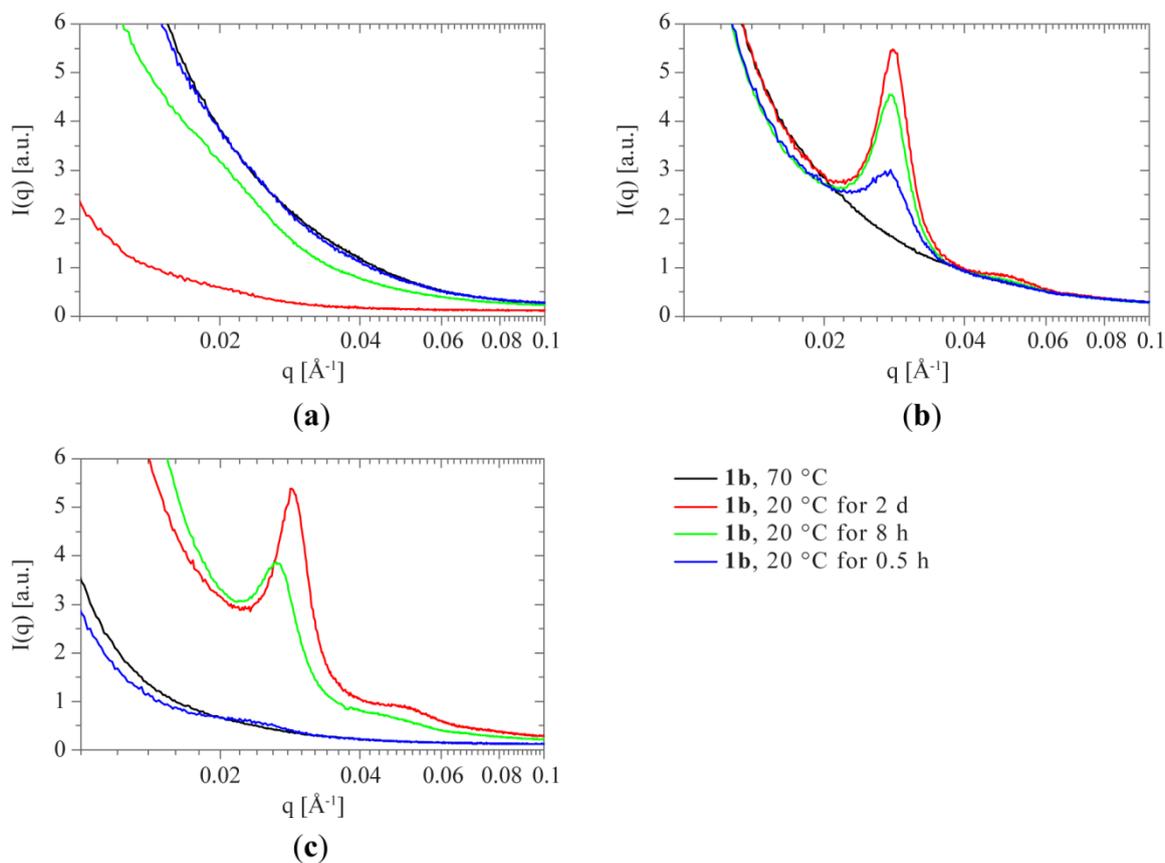
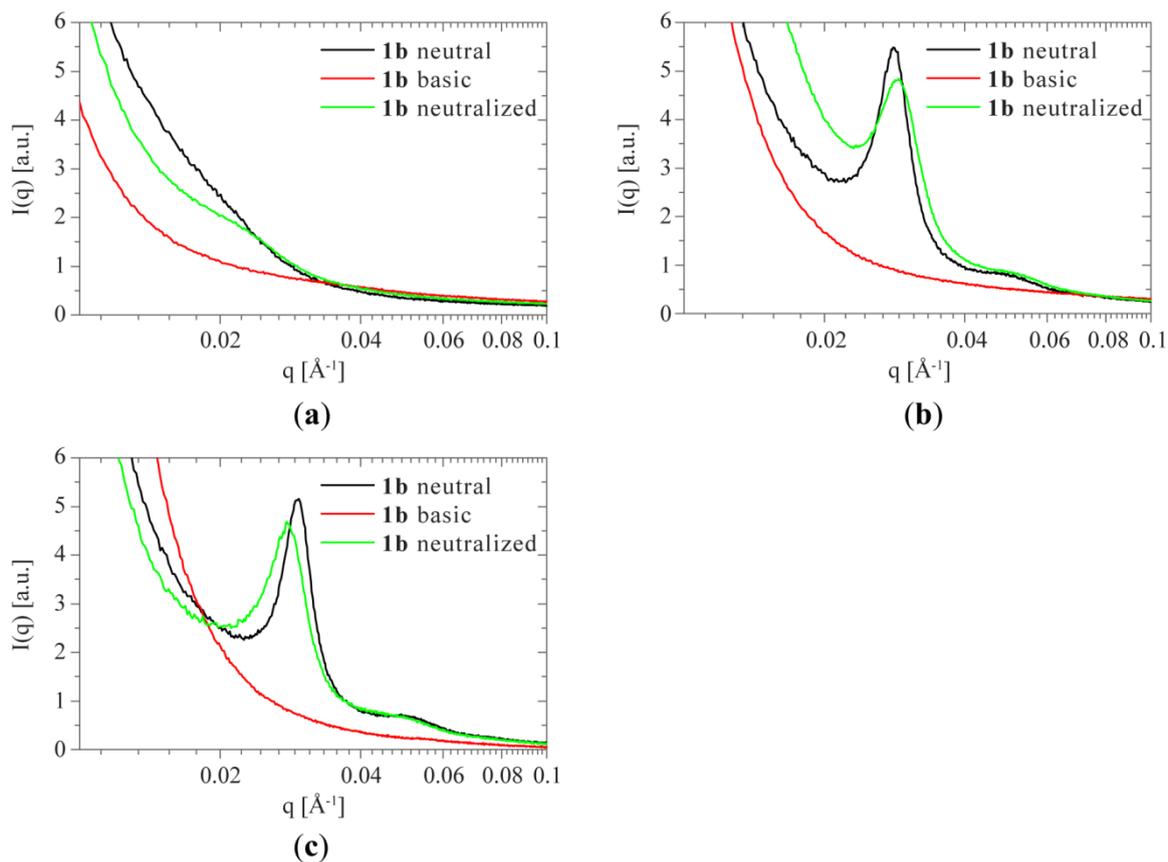


Figure S3. Small angle X-ray scattering profiles for **1b** at (a) 5 wt %, (b) 15 wt % and (c) 20 wt % under neutral (black), basic (red) and neutralized (green) conditions.



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