

Supporting Information

Novel Biocompatible Double Network Hydrogels Consisting of Konjac Glucomannan with High Mechanical Strength and Free-shapeable Ability

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Experiment

Rheological experiments

The hydrogels swollen to equilibrium state were used for rheological experiments. Rheological properties of the samples were measured using a DHR-2 stress controlled rheometer (TA Instruments). Frequency sweep and amplitude sweep experiments were performed at 30°C using a 25 mm parallel plate geometry.

Results and discussion

Supporting Figures

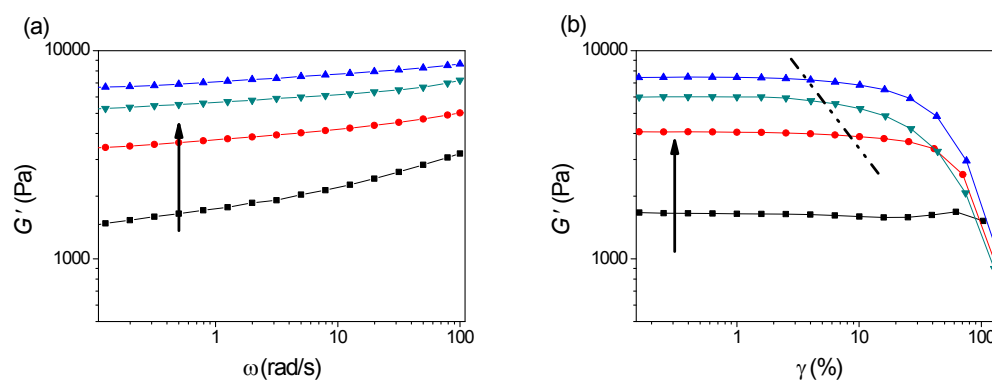


Figure S1. The frequency (a) and amplitude (b) dependence of storage modulus G' of the PVA-KGM hydrogels. The CFT times increase from 1 time to 4 times.

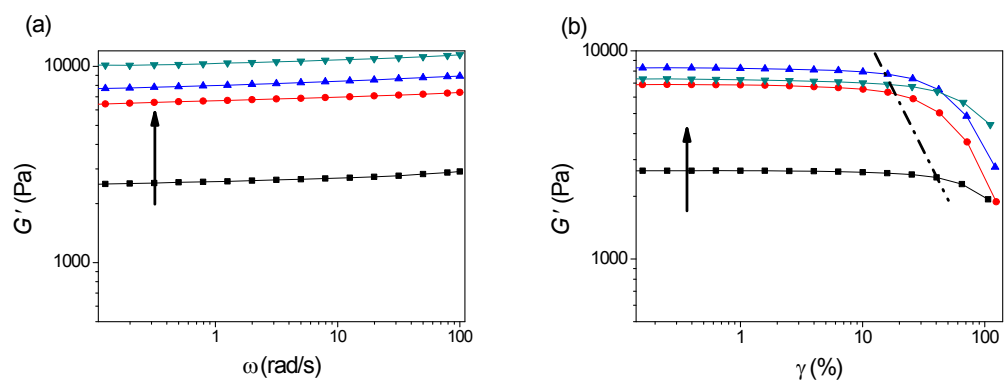


Figure S2. The frequency (a) and amplitude (b) dependence of storage modulus G' of the PVA-KGM/PAAm DN hydrogels. The CFT times increase from 1 time to 4 times. The AAm concentration used for the preparation of DN hydrogel is 4 M.

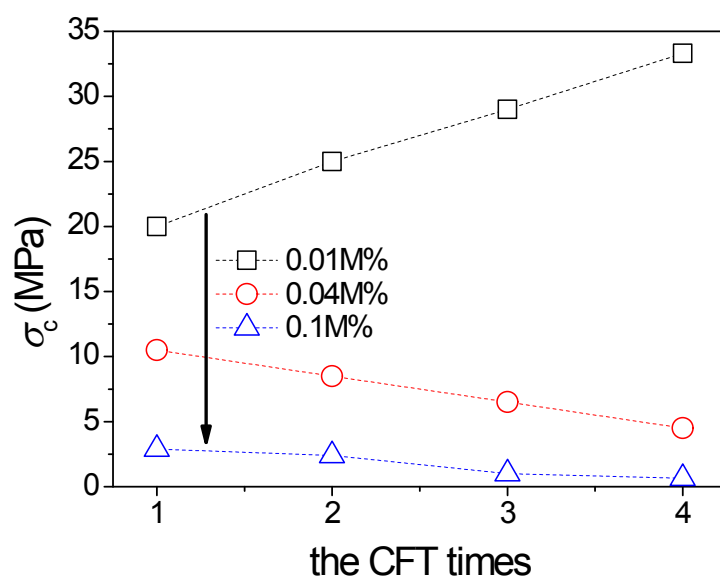


Figure S3. The effect of MBAA concentration on the compressive strength of the PVA-KGM/PAAm DN hydrogels. The AAm concentration used for the preparation of DN hydrogel is 4 M.