Supplementary Information for

New flexible aerogels and xerogels derived from methyltrimethoxysilane/dimethyldimethoxysilane co-precursors

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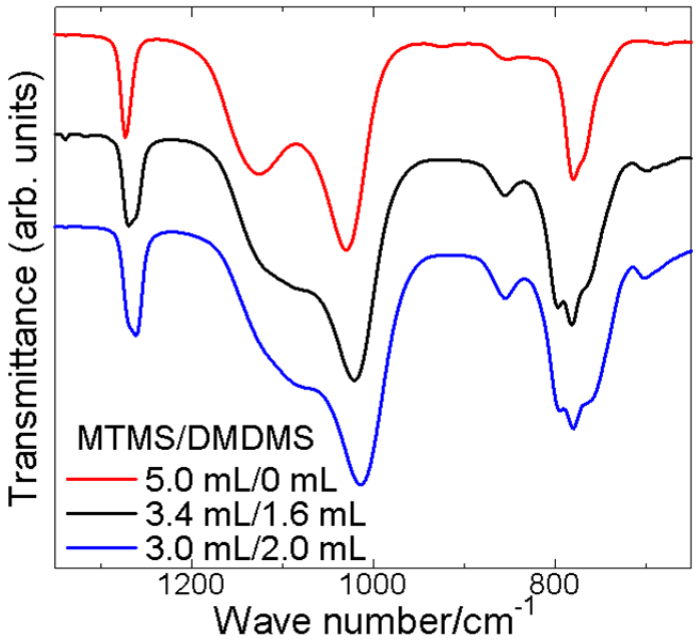

Fig. S1 FT-IR spectra of the aerogels prepared with different ratios of MTMS/DMDMS.

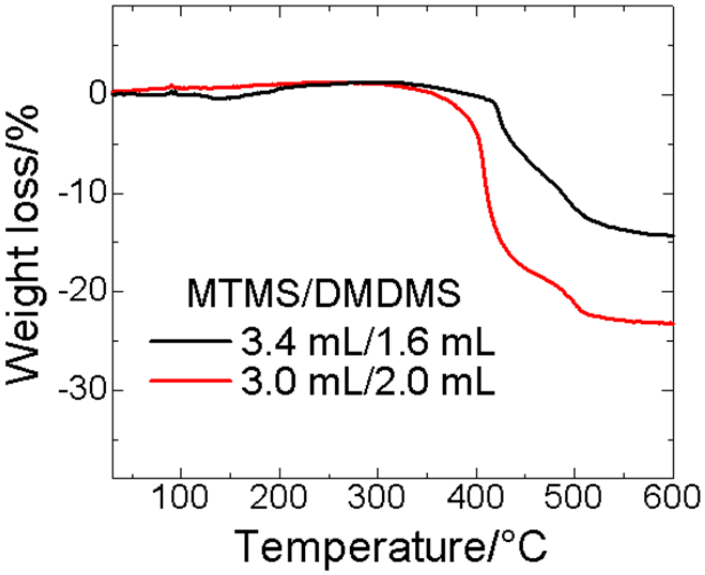

Fig. S2 TG curves of the aerogels prepared with varied ratios of MTMS/DMDMS.

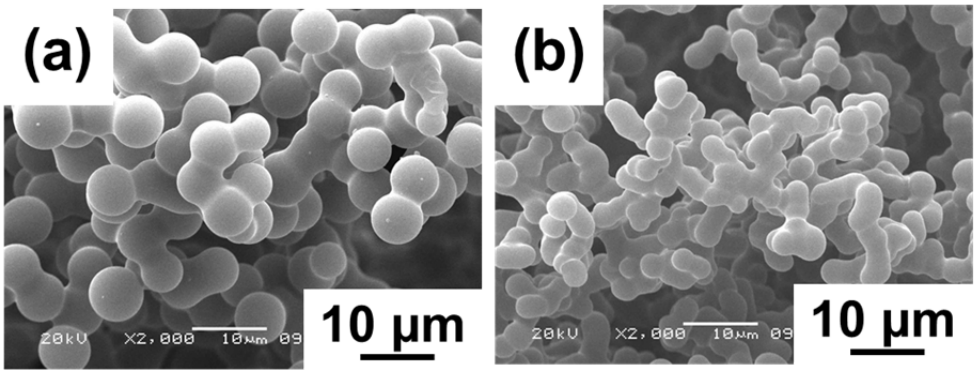

Fig. S3 SEM images of the aerogels prepared with different amounts of urea: (a) 1.0 g (U = 1.0) and (b) 5.0 g (U = 5.0).

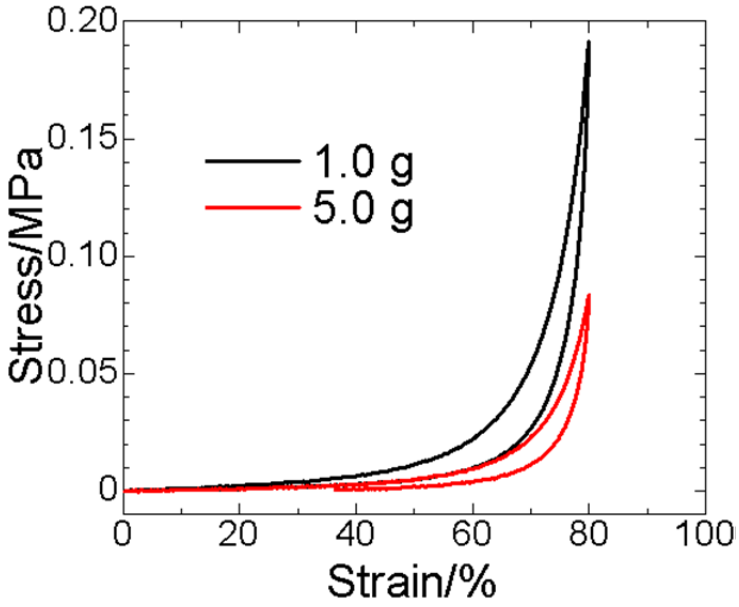

Fig. S4 Stress–strain curves of the aerogels prepared with varied amounts of urea.

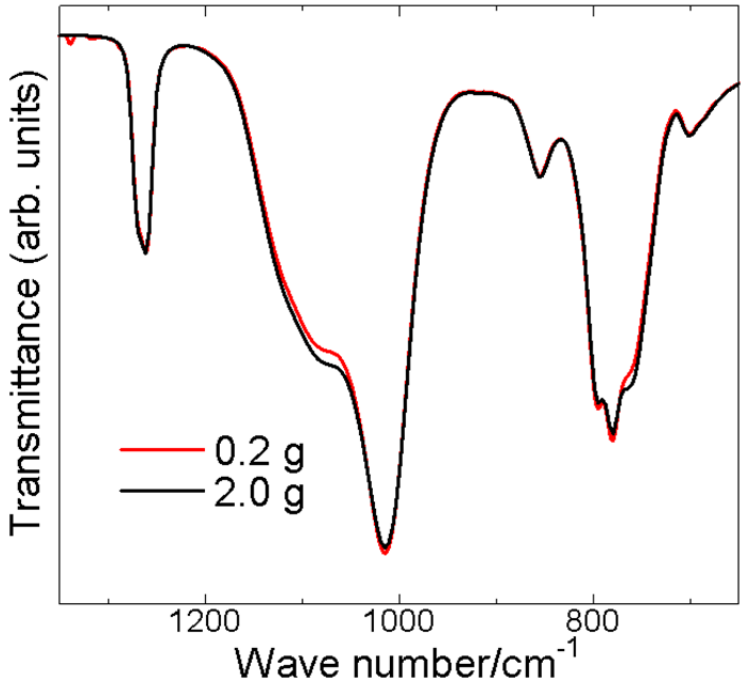

Fig. S5 FT-IR spectra of the aerogels prepared with varied amounts of CTAC.

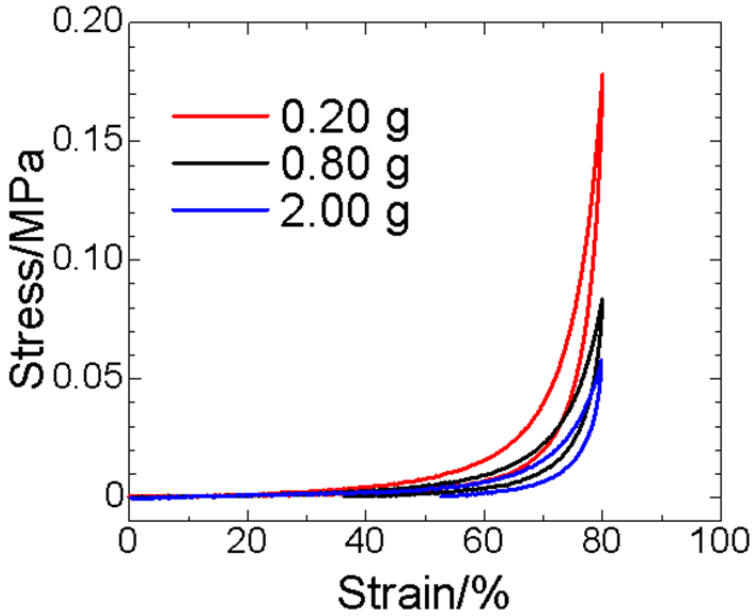

Fig. S6 Stress–strain curves of the aerogels prepared with varied amounts of CTAC.

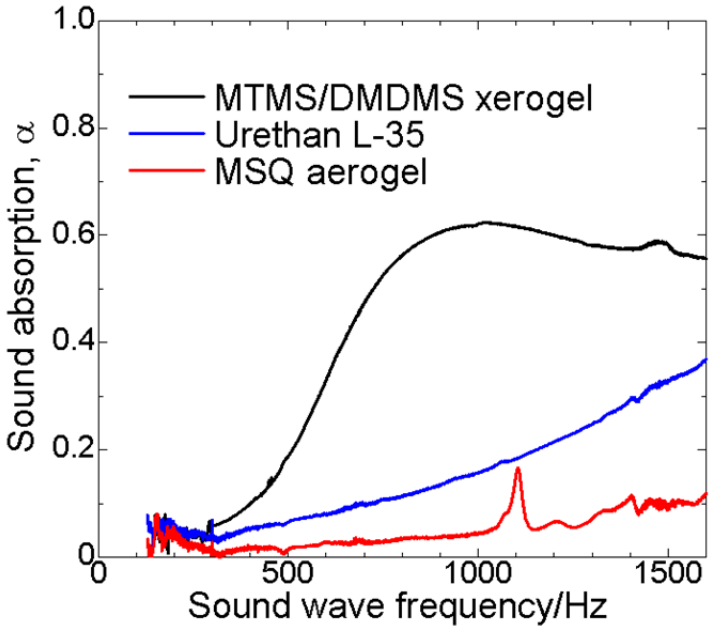

Fig. S7 Normal incidence sound absorption coefficients of the MTMS/DMDMS xerogel, the MSQ aerogel and the urethane form (a conventional acoustic absorbent). Absorbance in the MTMS/DMDMS xerogel is the highest among these three.