Assembly of silica aerogels within silica nanofibers: Towards a super-insulating flexible hybrid aerogel membrane

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**Fig. S1** Optical images of the preparation of hybrid SNF/SA membranes.

**Fig. S2** Optical images presenting process of the three-point flexural bending test on a softness tester.
Fig. S3 FE-SEM images of the as-prepared SNF/SA membranes (a) without TMCS modification, and (b) with TMCS modification.

Fig. S4 Droplets of water, milk and orange juice on a hybrid SNF/SA-4 membrane.

Fig. S5 FT-IR spectra of SNF, and SNF/SA-4 membranes.