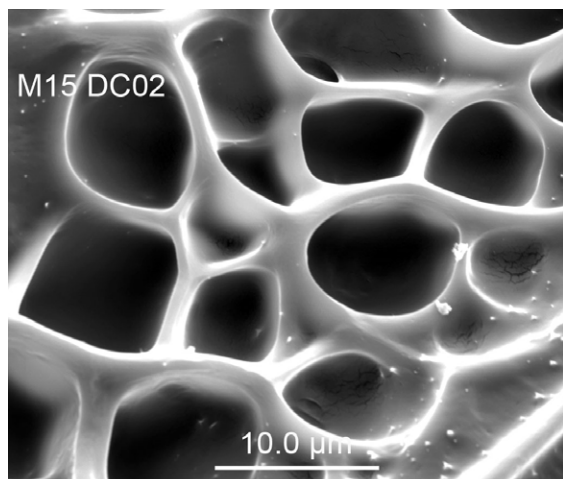


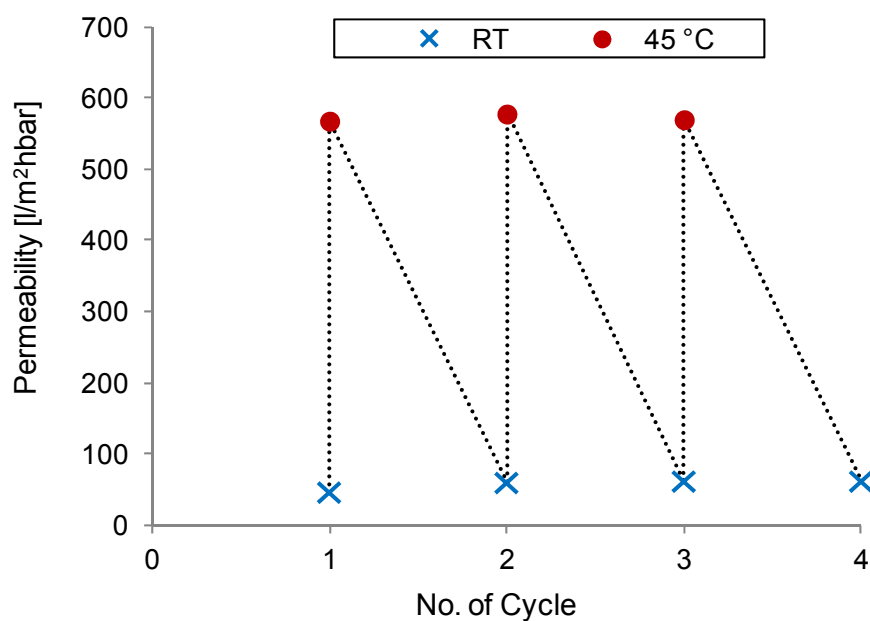
## Supporting information

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**Title: Novel hydrogel pore-filled composite membranes with tunable and temperature-responsive size-selectivity**



**Fig. A** SEM micrograph of swollen hydrogel after freeze-drying. Hydrogel composition was 15 wt% of NIPAAm and 2 wt% of MBAAm relative to NIPAAm (M15 DC02).



**Fig. B** Reversible temperature responsivity of water permeability for HPFCM prepared with base membrane 1000 nm.