

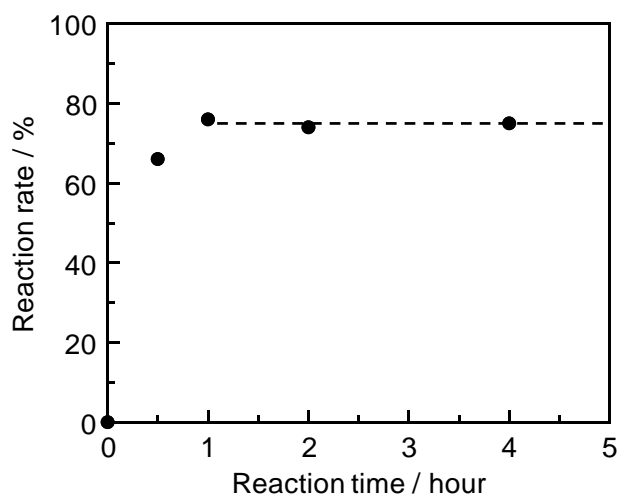
## Supporting Information

### One-pot surface modification of rubbery polymer films

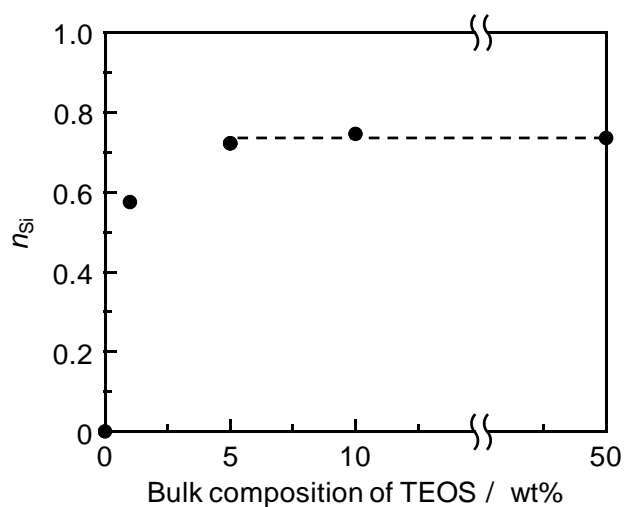
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**Fig. S1** Sol-gel reaction rate for TEOS as a function of reaction time at 333 K evaluated by nuclear magnetic resonance. The broken line is drawn to guide the eye. In this study, we have chosen 2 hours as a reaction condition.



**Fig. S2** Atomic ratio of silicon to carbon ( $n_{Si}$ ) at the outermost surface of the PI/TEOS films with various bulk compositions of TEOS. The broken line is drawn to guide the eye.