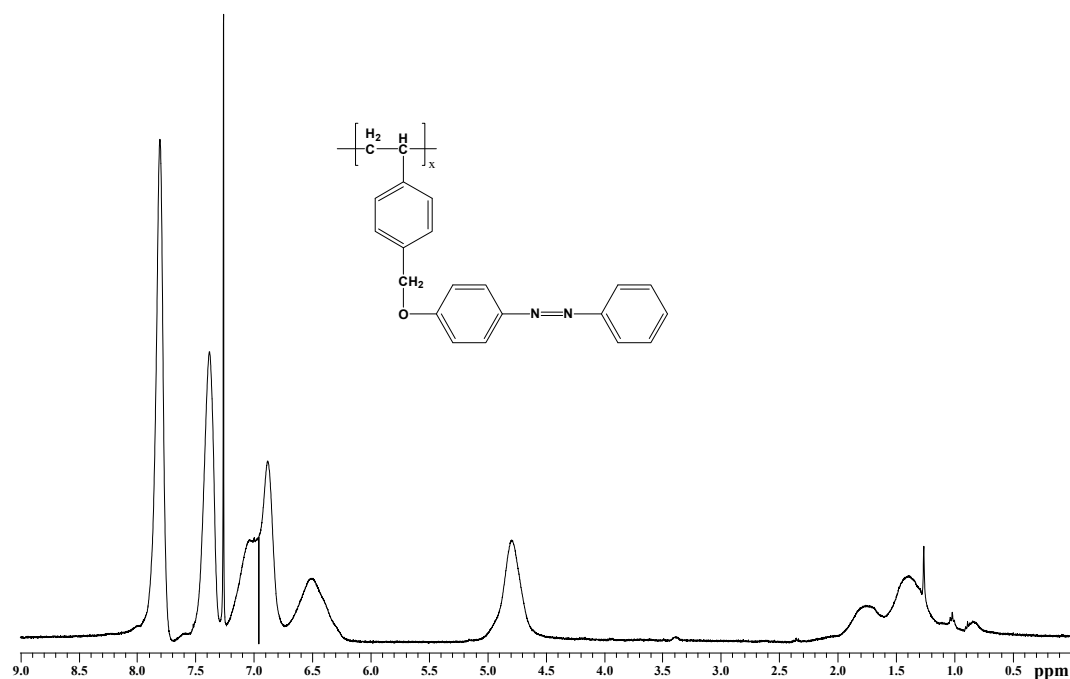


## Supplementary Materials: Motion of Adsorbed Nano-Particles on Azobenzene Containing Polymer Films

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The substitution degree of the chlorobenzyl groups from the starting PCMS is higher than 99%. In the  $^1\text{H}$ -NMR spectrum of the Azo-PCMS the characteristic signal of the chlorobenzyl group (4.4 ppm) completely disappears, being replaced by a new signal (4.8 ppm) attributed to the sequence  $\text{O}-\text{CH}_2-\text{O}$ .



**Figure S1.**  $^1\text{H}$ -NMR spectrum of the Azo-PCMS.