

## Supporting Information

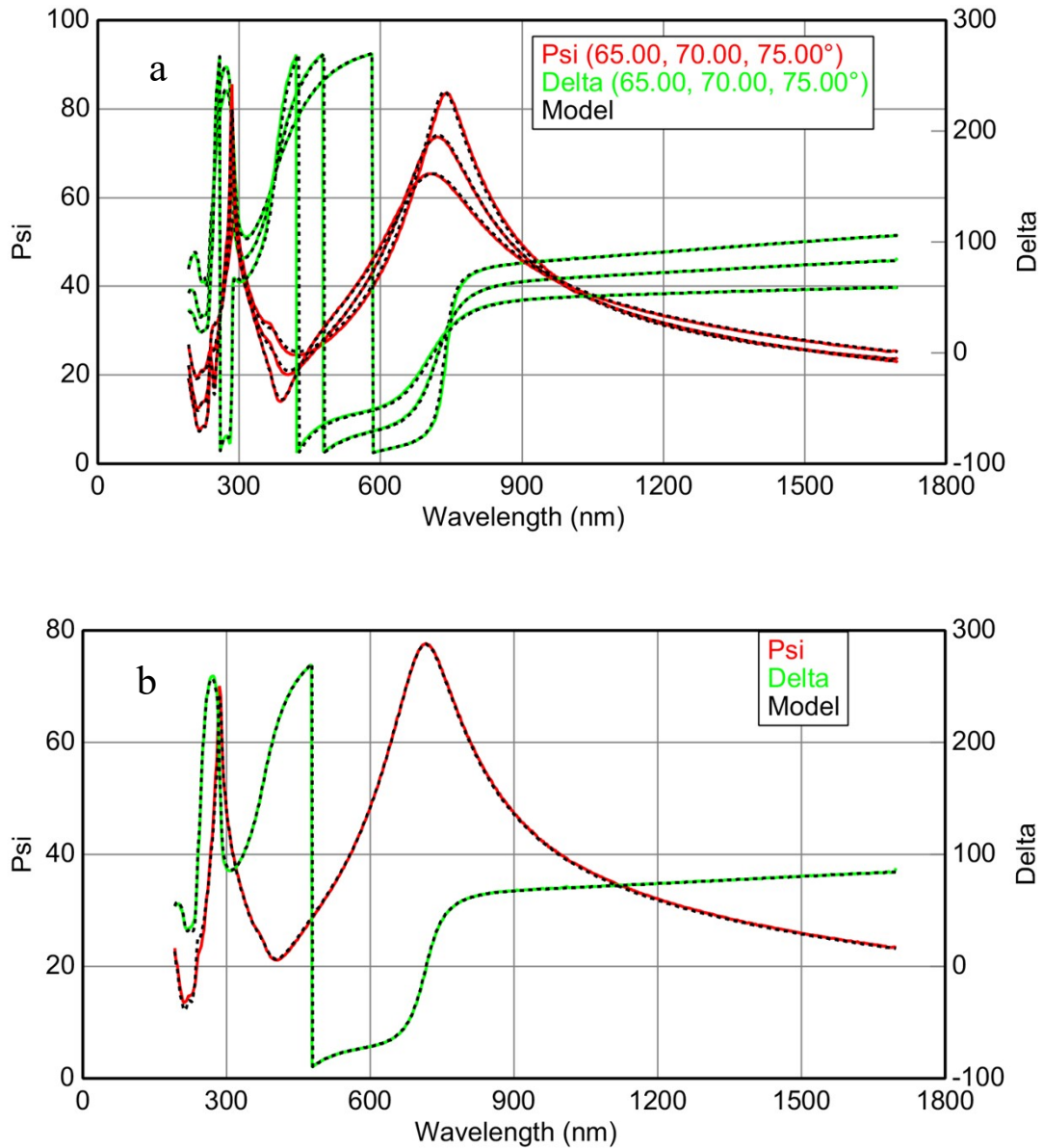
### Growth Kinetics of the Adsorbed Layer of Poly (bisphenol-A carbonate) and its Effect on the Glass Transition Behavior in Thin Films

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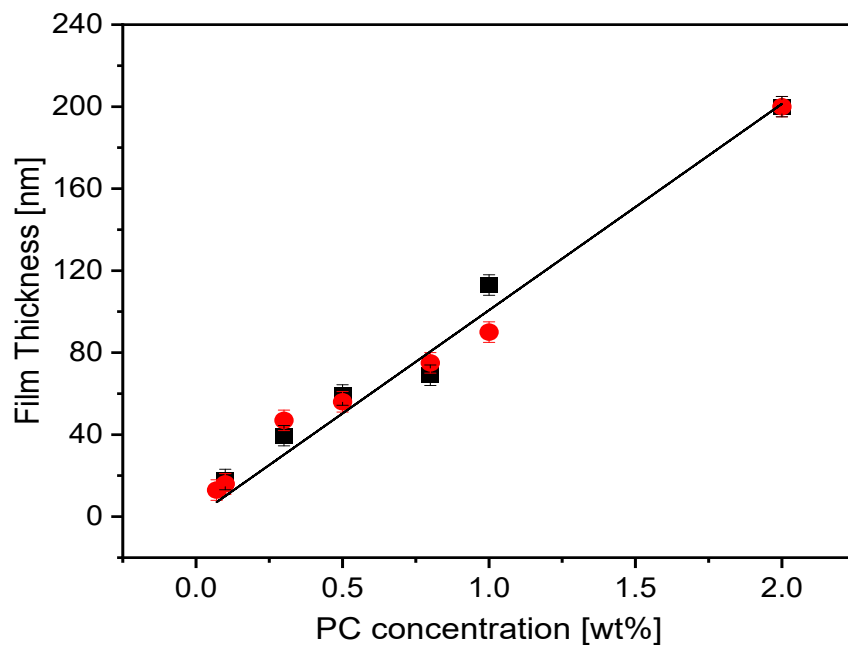
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Analysis of the ellipsometric data:



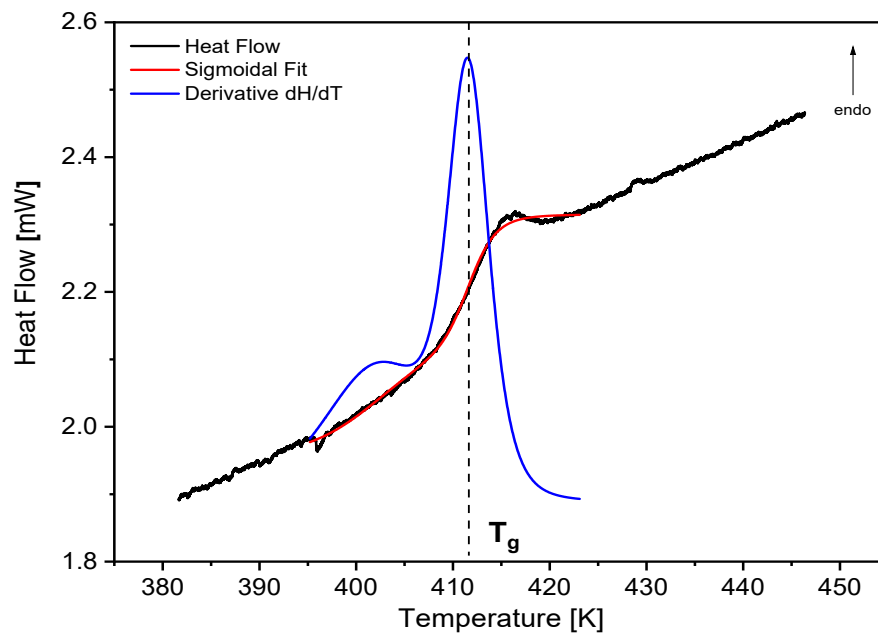
**Figure S1:** Examples for the analysis of the ellipsometric data (Psi - red, delta – green) for a PBAC film with a thickness of 140 nm: a – multi-angle measurements at the angles 65 °, 70 ° and 75 °, b – Single angle measurement at 70 ° during a heating scan at 180 °C (t=62 min). The dotted lines in both figures are the fit of the model to both set of data.

Comparison of the film thickness obtained by AFM measurements and spectroscopic ellipsometry:



**Figure S2:** Film thickness of various diluted solutions measured by both AFM (black squares) and Ellipsometry (red circles). The solid line is a linear fit to both sets of data

Analysis of the DSC measurements:



**Figure S3:** Heat flow curve (black line) with a sigmoidal function fit to the data (red line). The derivative of the sigmoidal fit (blue line) with the peak height taken as the glass transition temperature ( $T_g$ ).