

*Supporting Information for*

**Preparation and Gas Transport Properties of Triptycene-containing  
Polybenzoxazole (PBO)-based Polymers Derived from Thermal  
Rearrangement (TR) and Thermal Cyclodehydration (TC) Processes**

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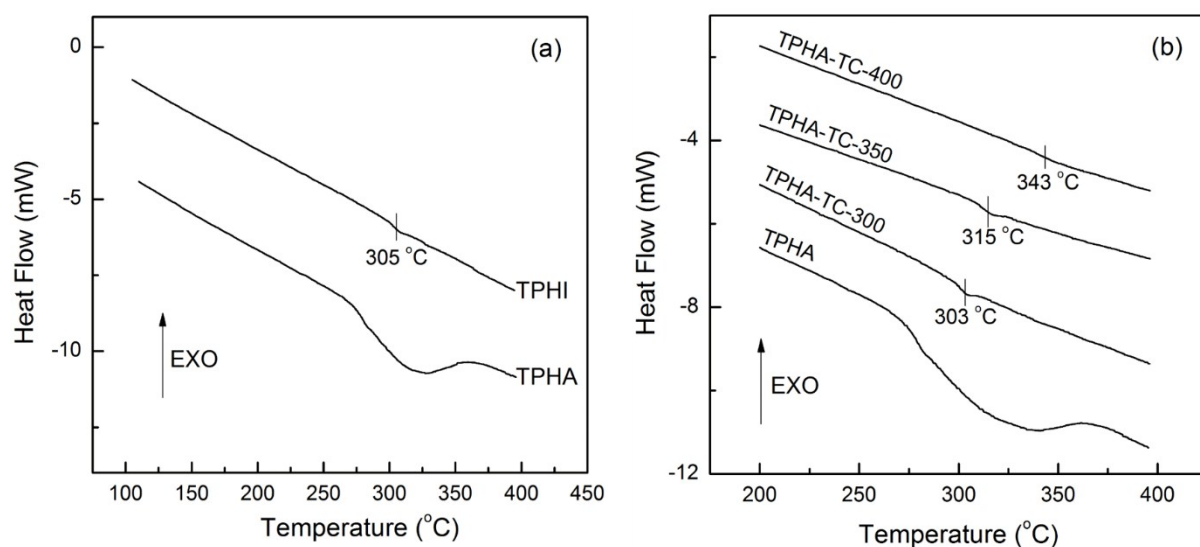
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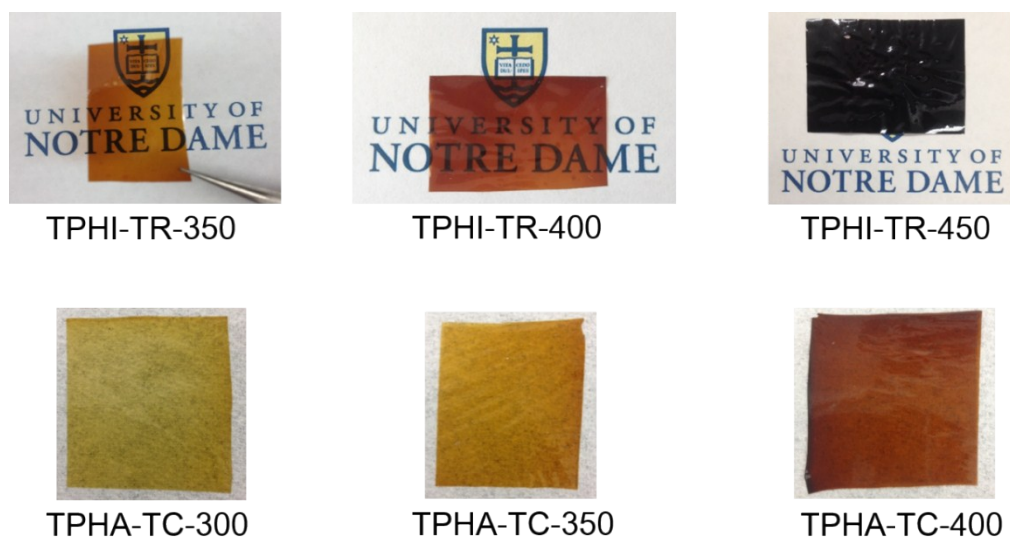
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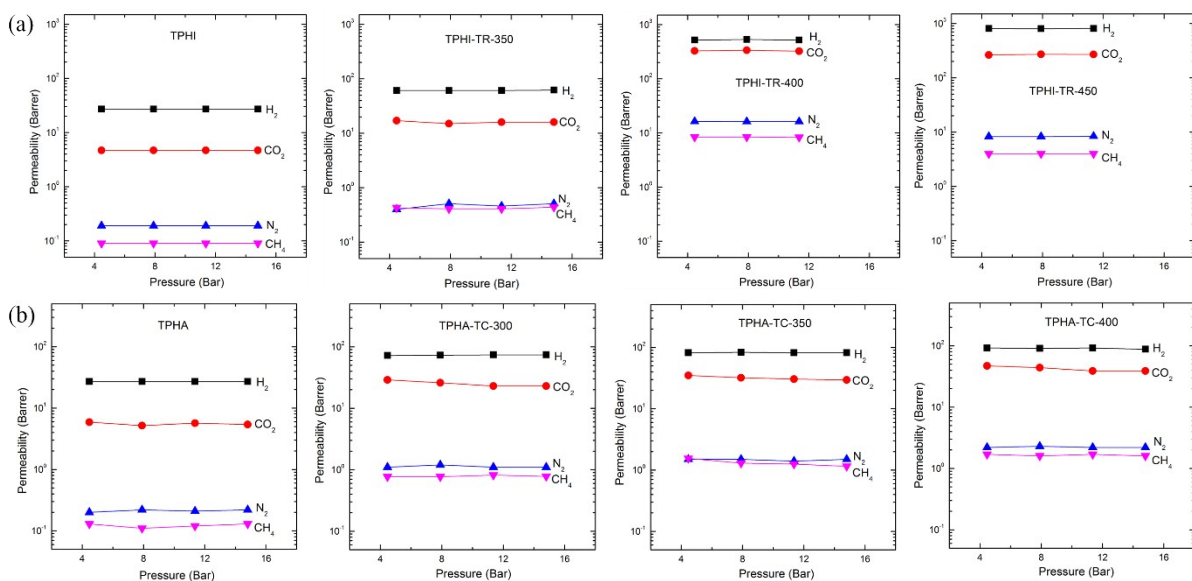
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**Figure S1.** DSC thermograms for (a) triptycene-containing TPDAn-6FAP-TPHI and TPDC-6FAP-TPHA precursors; (b) TPHA precursor and resulting PBOs obtained at different TC temperatures. All curves shown were obtained in the second heating cycle.



**Figure S2.** Photographs of the thermally treated films.



**Figure S3.** Pure gas permeabilities of (a) TPHI-TR and (b) TPHA-TC membranes as a function of feed pressure.