

*Supplementary Materials*

**Fabrication of High-Performance Colorimetric Membrane by Incorporation of Polydiacetylene into Polyarylene Ether Nitriles Electrospinning Nanofibrous Membranes**

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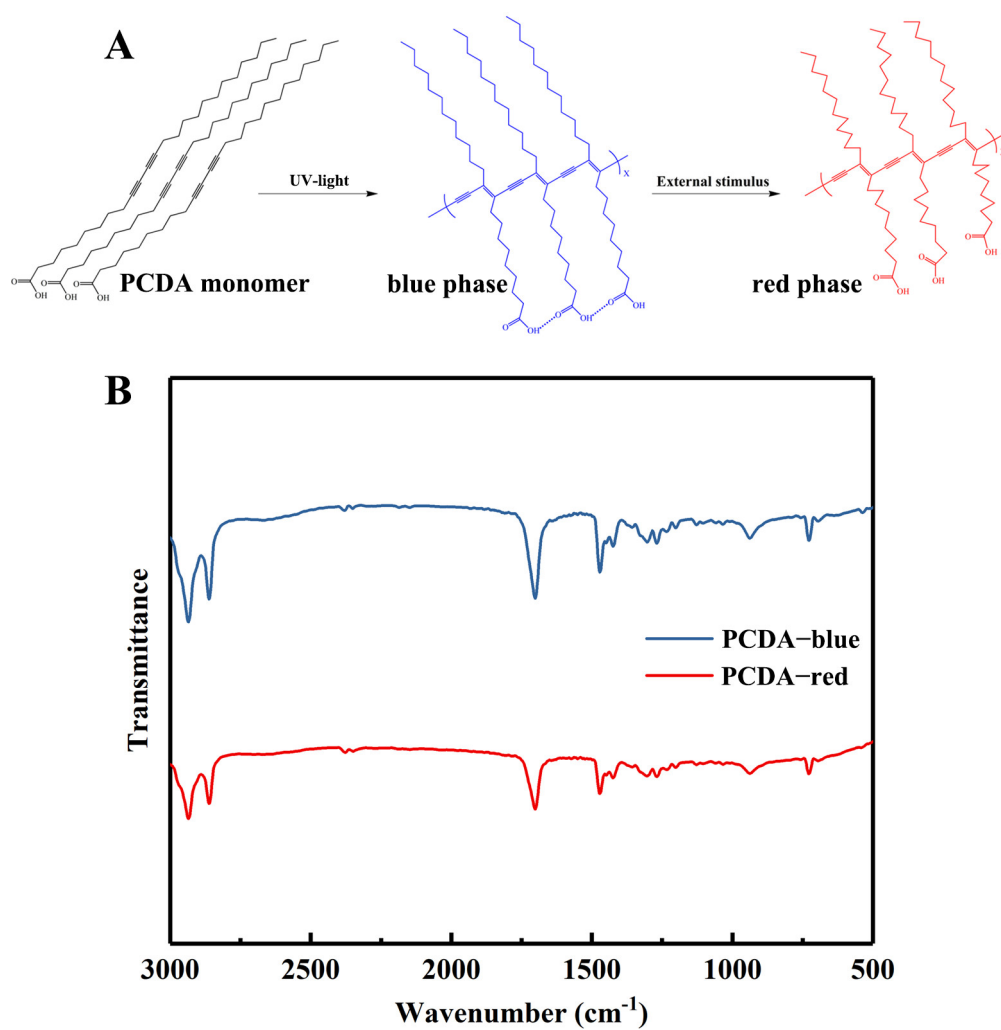
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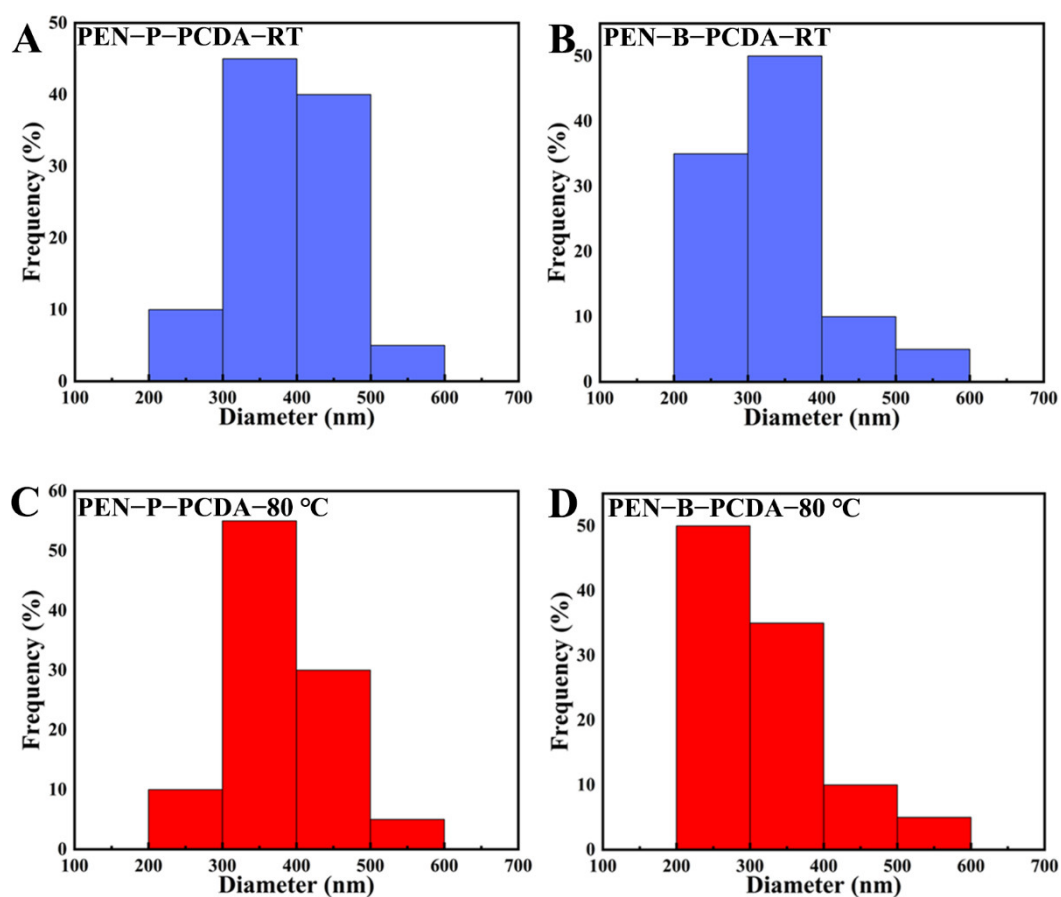
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**Figure S1.** Chemical structures of PCDA at situations of monomer, blue phase and red phase (A), and the FT-IR curves of blue phase and red phase (B).



**Figure S2.** Statistical results of diameter of PEN-P-PCDA (A and C) and PEN-B-PCDA (B and D) nanofibrous membranes.