

Supporting Information for  
New Organic-Inorganic Hybrid Materials: High  
Refractive Index Polymers Based on Cyclotriphosphazene  
with High Thermostability and Transparency

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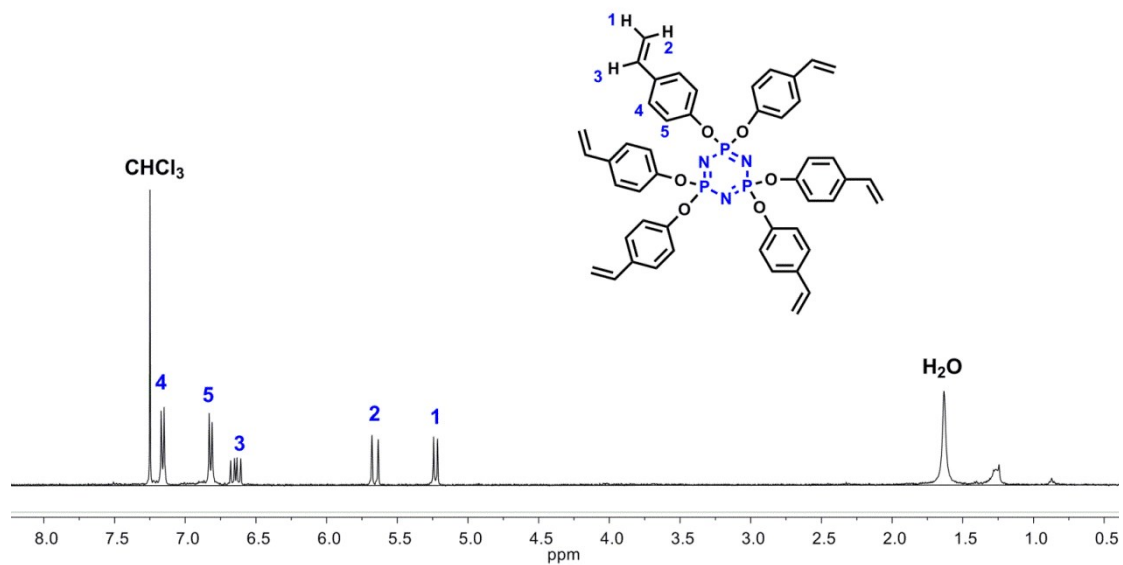
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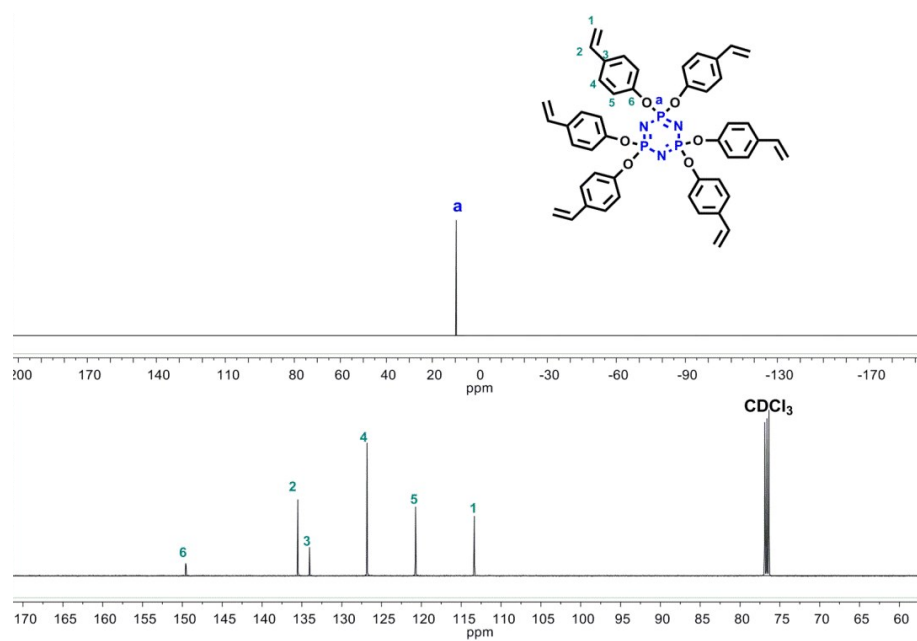
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**Fig. S1**  $^1\text{H}$  NMR spectrum of CVP (400 MHz,  $\text{CDCl}_3$ ).



**Fig. S2**  $^{31}\text{P}$  NMR (121 MHz,  $\text{CDCl}_3$ ) and  $^{13}\text{C}$  NMR (100 MHz,  $\text{CDCl}_3$ ) spectra of CVP.

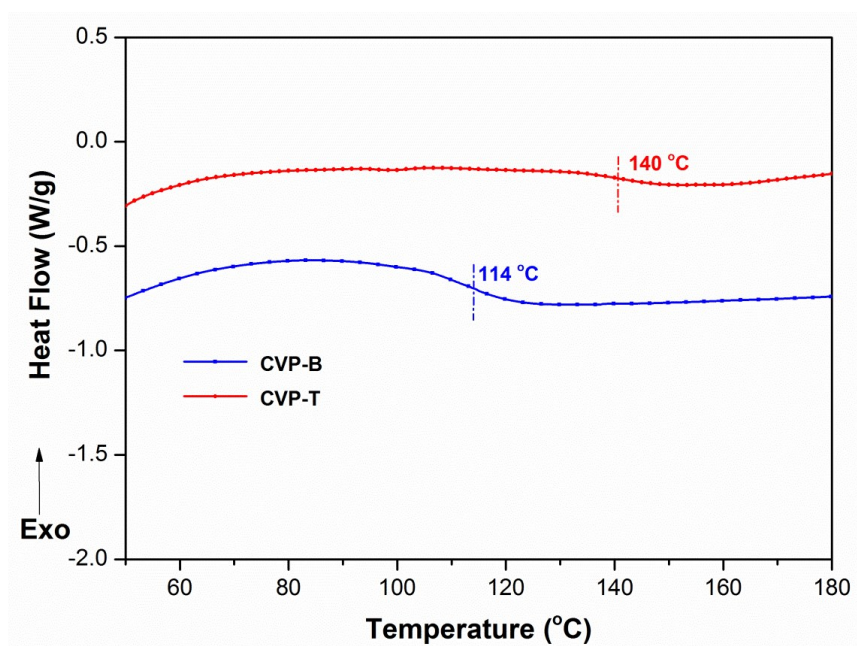


Fig. S3 DSC traces of CVP-B and CVP-T (10 °C/min, in N<sub>2</sub>).

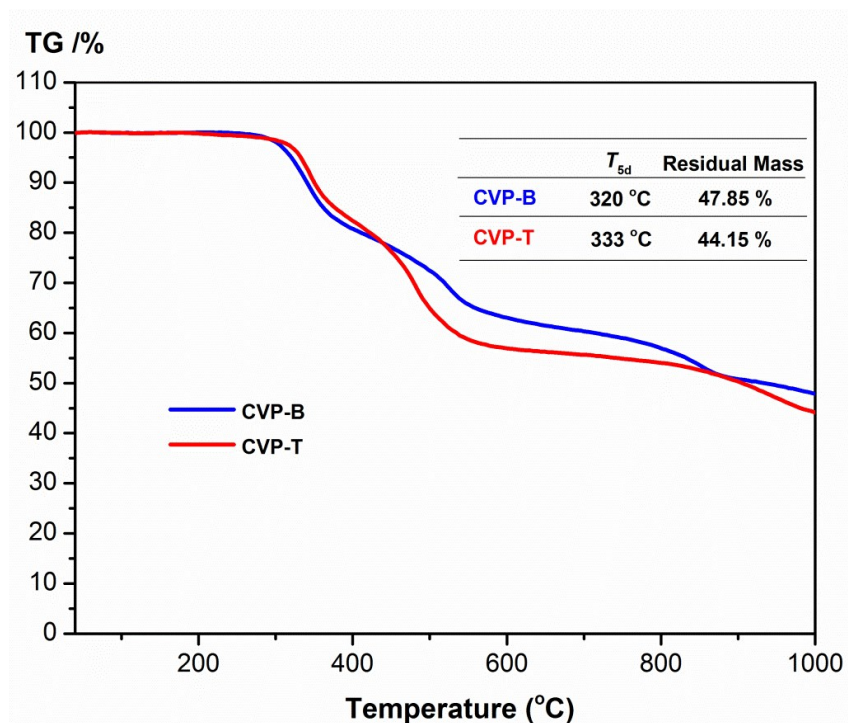


Fig. S4 TGA curves of CVP-B and CVP-T (10 °C/min, in N<sub>2</sub>).

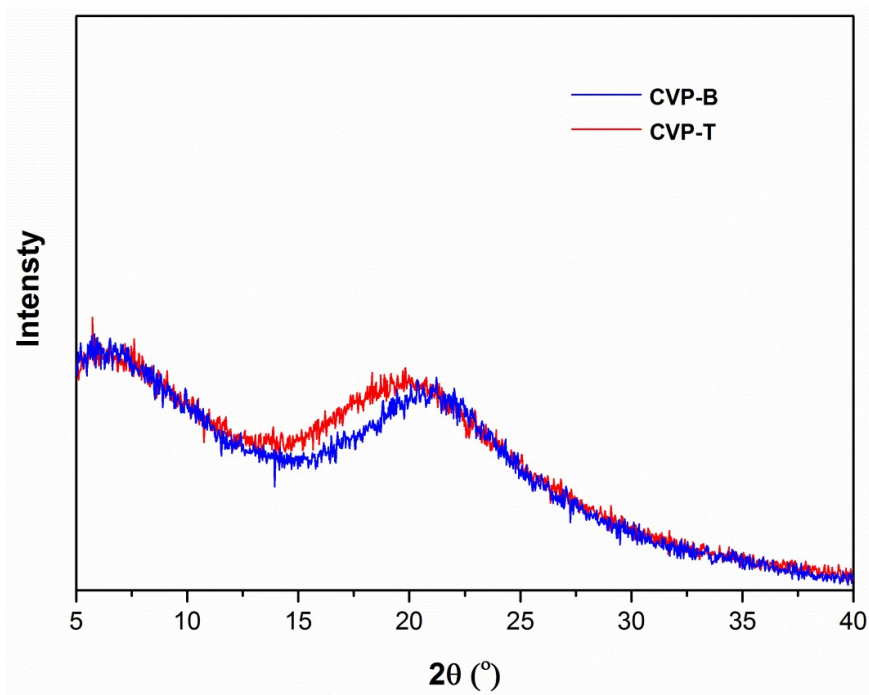


Fig. S5 XRD pattern spectra of free-standing films of **CVP-B** and **CVP-T**.

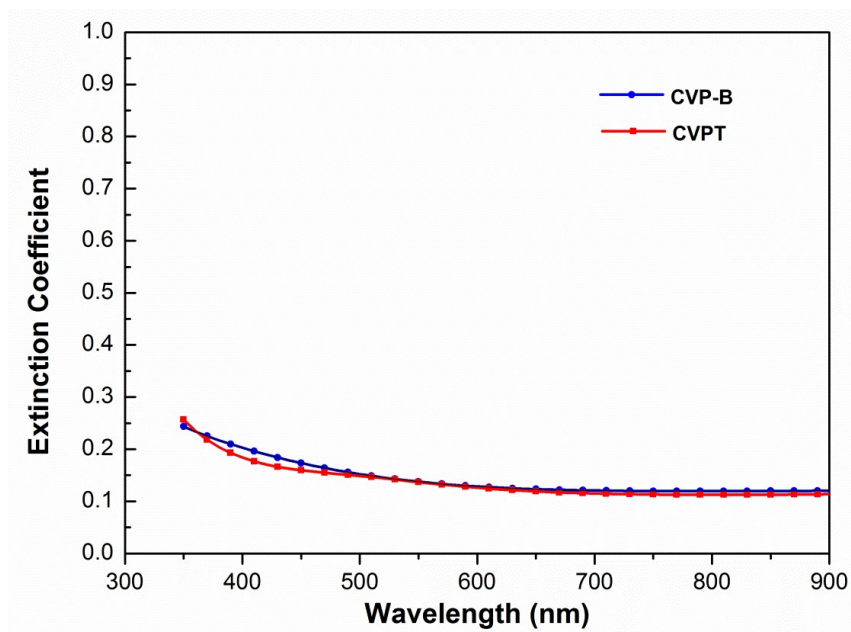
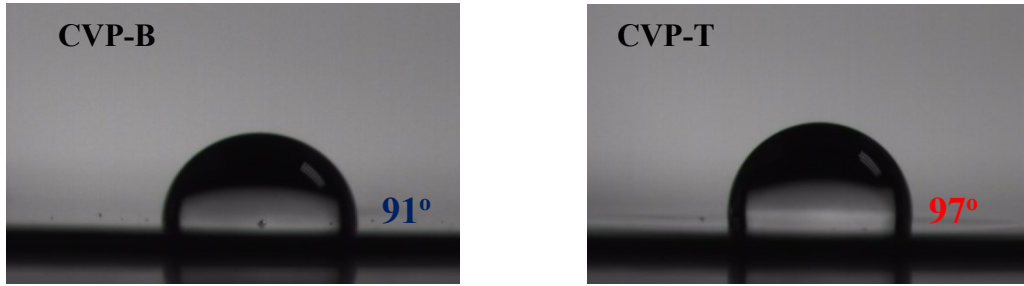
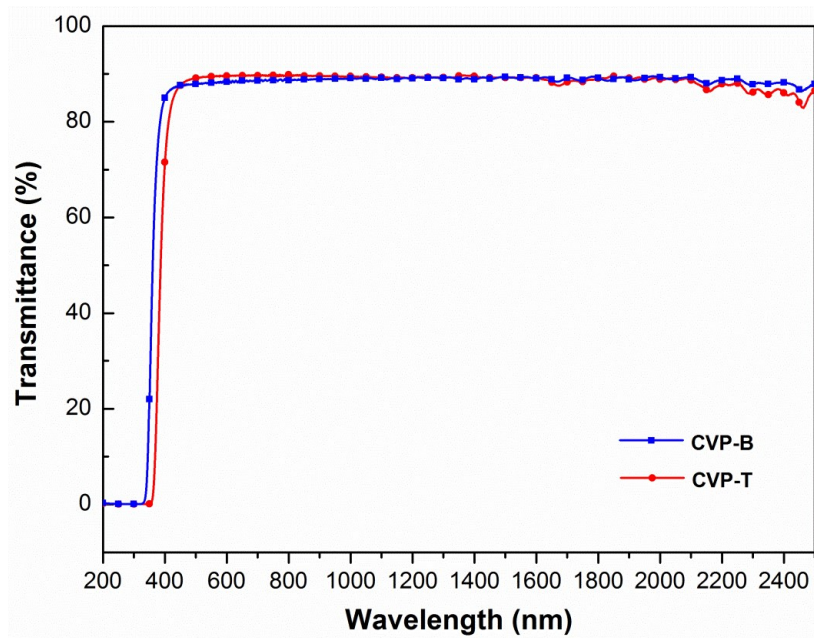


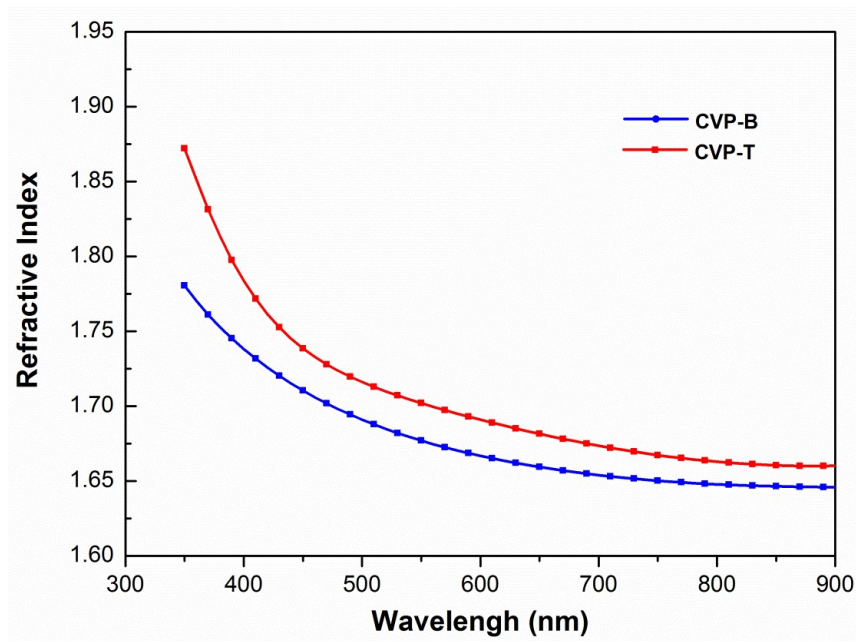
Fig. S6 Variation coefficient of the **CVP-B** and **CVP-T** films.



**Fig. S7** Pictures of the contact angles of **CVP-B** and **CVP-T** films.



**Fig. S8** Transmittance of free-standing films of **CVP-B** and **CVP-T** after immersing in the water for 2 days.



**Fig. S9** Variation coefficient of **CVP-B** and **CVP-T** films after immersing in the water for 2 days.