

Supporting Information

Optically Transparent Fluor-containing Polycarbonate with High Refractive Index for Thermo-optic Switch

Zhenzhen Cai,^a Yuping Zhang,^a Yilong Song,^a Qiuli Cheng,^a Yang Zheng,^c Zhanchen Cui,^{*,a,b} Zuosen Shi,^{*,a} Changming Chen^c and Daming Zhang^c

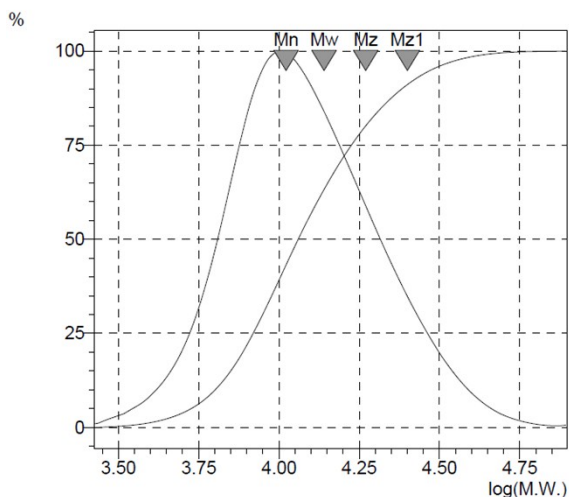
^a State Key Laboratory of Supramolecular Structure and Materials, Jilin University, Changchun 130012, People's Republic of China

^b Department of Chemistry and Pharmacy, Zhuhai College of Jilin University, Zhuhai 519041, People's Republic of China

^c State Key Lab on Integrated Opto-electronics, Jilin University Region, Changchun 130012, People's Republic of China

Correspondence to: Zhanchen Cui (E-mail: cuizc@jlu.edu.cn)

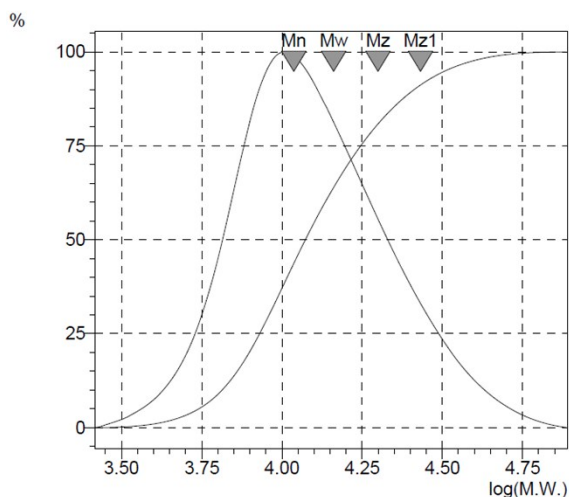
GPC Calculation Results



Detector A Ch1	
[Average Molecular Weight(Total)]	
Number Average Molecular Weight(Mn)	10530
Weight Average Molecular Weight(Mw)	13826
Z Average Molecular Weight(Mz)	18649
Z+1 Average Molecular Weight(Mz1)	25121
Mw/Mn	1.31303
Mv/Mn	0.00000
Mz/Mw	1.34883

Figure S1. The GPC calculation results of FBPA-PC-EP-1.

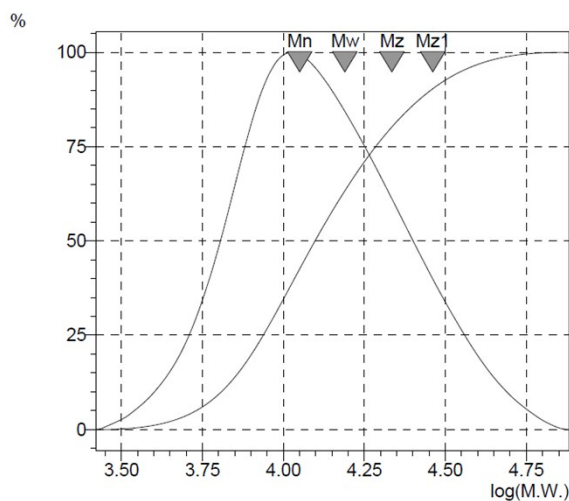
GPC Calculation Results



Detector A Ch1	
[Average Molecular Weight(Total)]	
Number Average Molecular Weight(Mn)	10895
Weight Average Molecular Weight(Mw)	14499
Z Average Molecular Weight(Mz)	19933
Z+1 Average Molecular Weight(Mz1)	27034
Mw/Mn	1.33088
Mv/Mn	0.00000
Mz/Mw	1.37476

Figure S2. The GPC calculation results of FBPA-PC-EP-2.

GPC Calculation Results



Detector A Ch1	
[Average Molecular Weight(Total)]	
Number Average Molecular Weight(Mn)	11223
Weight Average Molecular Weight(Mw)	15485
Z Average Molecular Weight(Mz)	21629
Z+1 Average Molecular Weight(Mz1)	28934
Mw/Mn	1.37978
Mv/Mn	0.00000
Mz/Mw	1.39675

Figure S3. The GPC calculation results of FBPA-PC-EP-3.

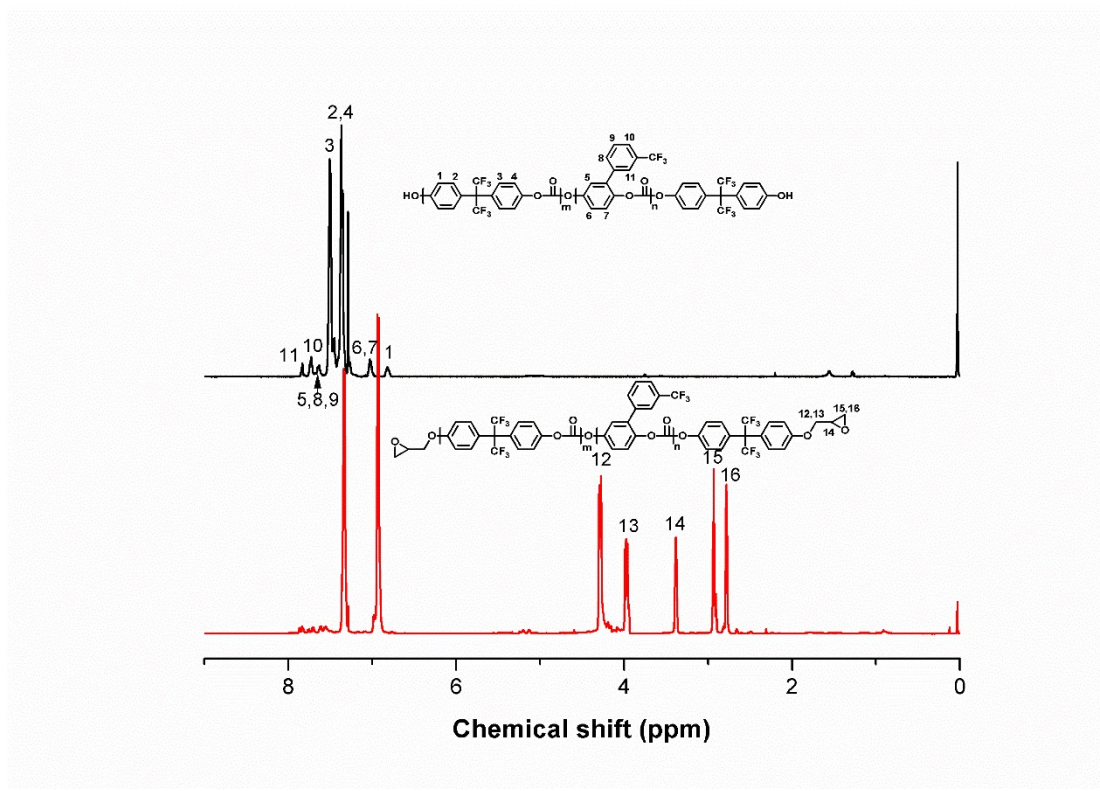


Figure S4. ^1H NMR spectra of FBPA-PC-OH and FBPA-PC-EP (from top to bottom).

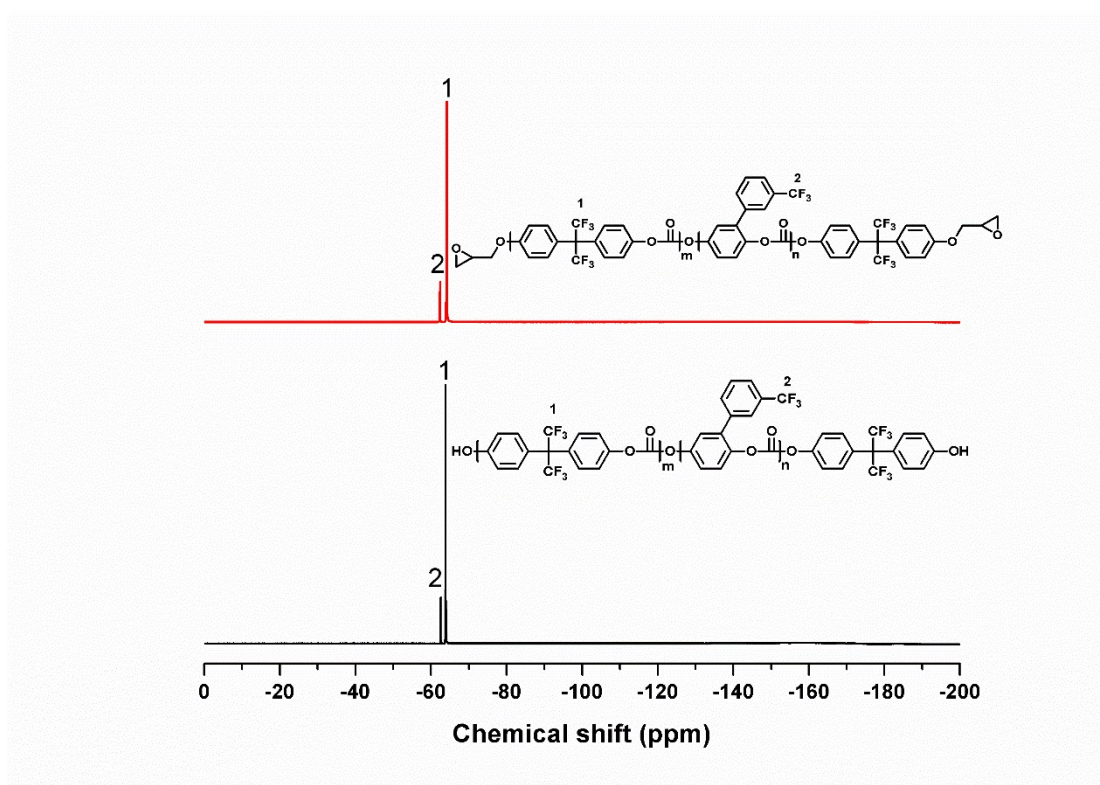


Figure S5. ^{19}F NMR spectra of FBPA-PC-OH and FBPA-PC-EP (from bottom to top).

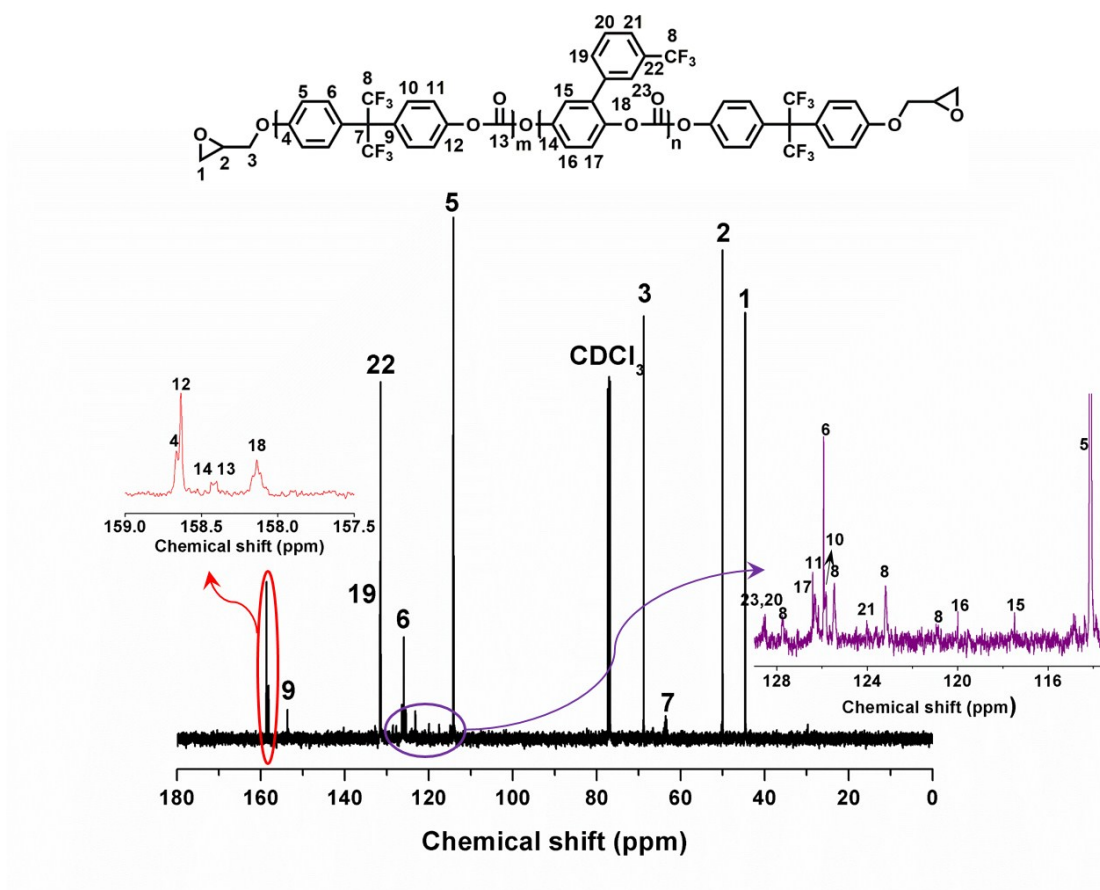


Figure S6. ^{13}C NMR spectra of FBPA-PC-EP 2.

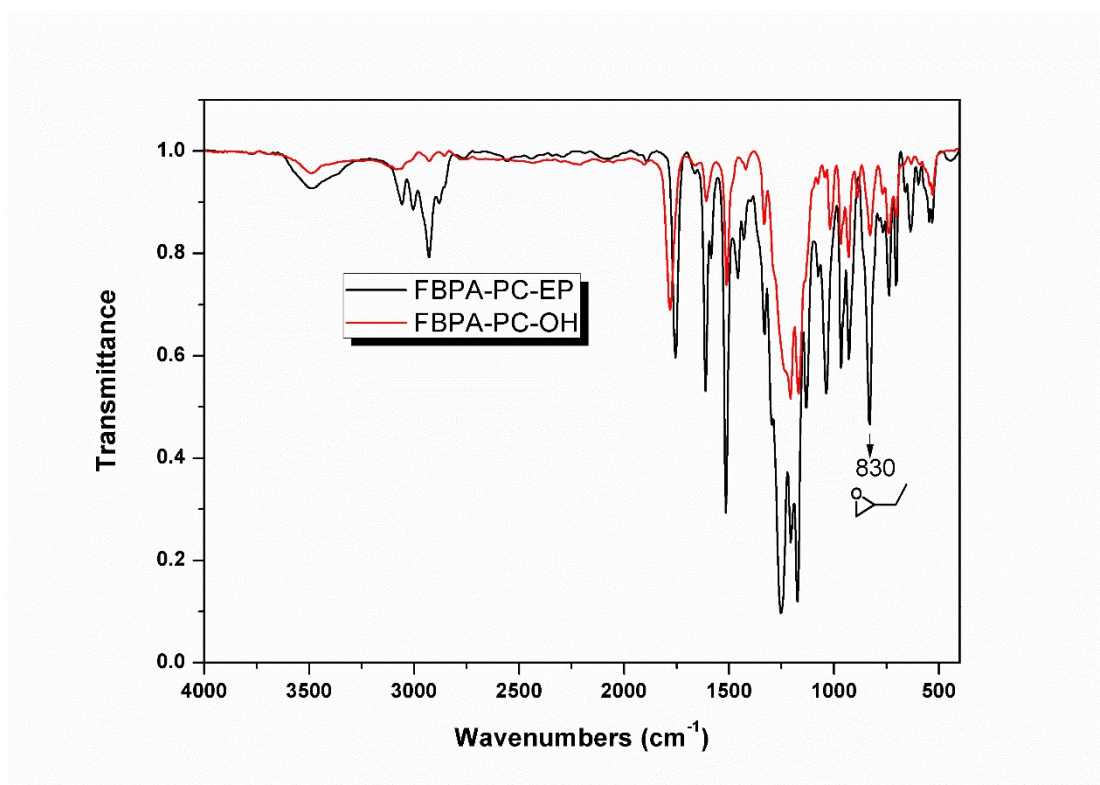


Figure S7. FTIR spectrum of FBPA-PC-OH and FBPA-PC-EP.

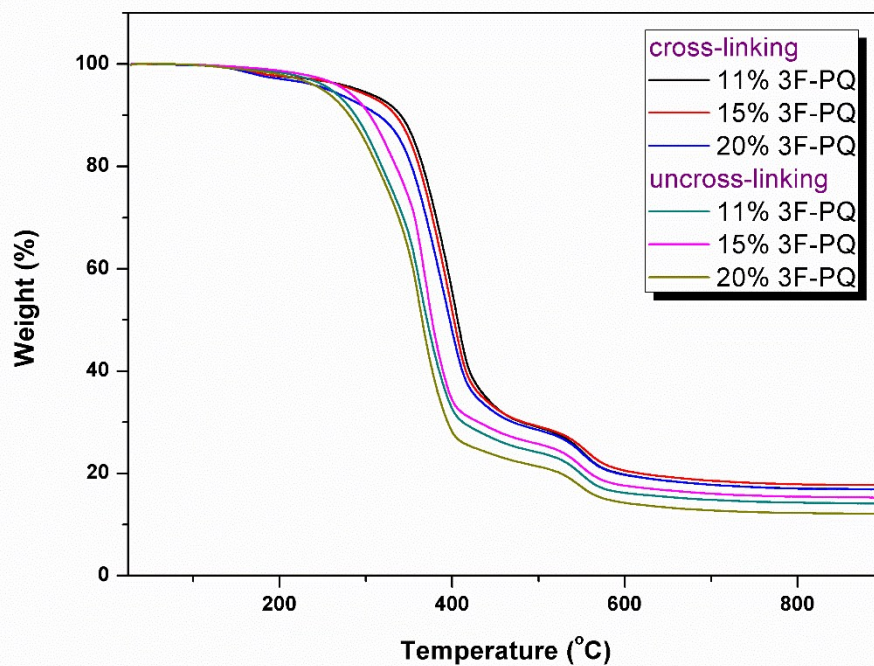


Figure S8. TGA thermograms of FPC-PRs 1-3 before and after cross-linking.

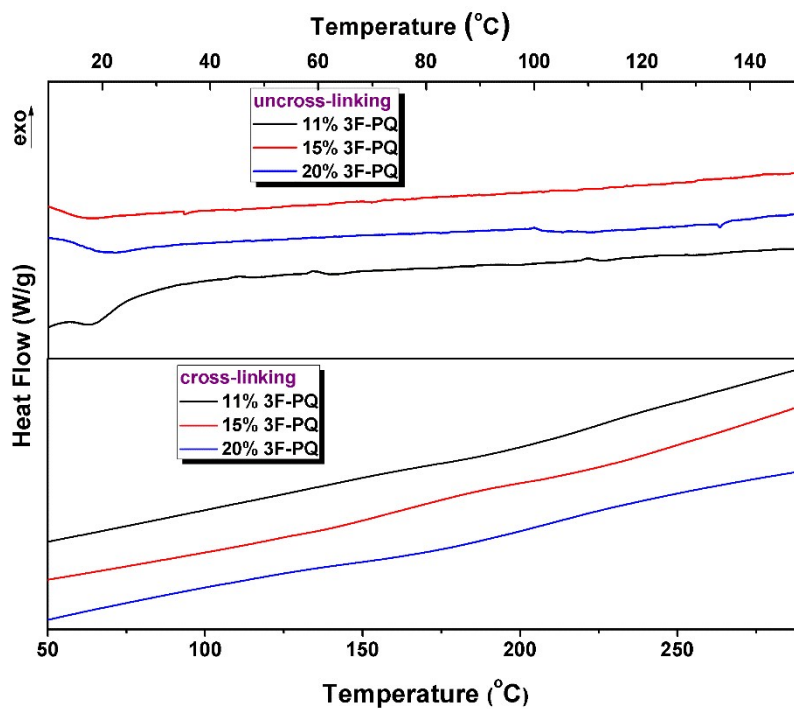


Figure S9. DSC thermograms of FPC-PR 1-3 before and after cross-linking.