## **Supporting Information**

## Effect of Fluoro-polycarbonate Containing Aliphatic/Aromatic Segment

## on the Characters of Thermo-optic Waveguide Devices

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Figure S1 <sup>1</sup>H NMR spectra of AF-Ali-PC OH and AF-Ali-PC EP (from top to bottom).



Figure S2 <sup>13</sup>C NMR spectra of AF-Ali-PC OH and AF-Ali-PC EP (from top to bottom).



Figure S3 <sup>19</sup>F NMR spectra of AF-Ali-PC OH and AF-Ali-PC EP (from top to bottom).



Figure S5 DSC thermograms of Ali-PR 1-3 before cross-linking.



Figure S6 TGA thermograms of Ali-PR 1-3 before and after cross-linking.



Figure S7<sup>1</sup>H NMR spectra of AF-Ar-PC OH and AF-Ar-PC EP (from top to bottom).





Figure S11 DSC thermograms of Ar-PR 1-3 before cross-linking.



Figure S12 TGA thermograms of Ar-PR 1-3 before and after cross-linking.