

## Supporting Information

### 유기반도체용 BDT-ttTPD 공중합체의 불소 치환이 물리적, 광학적 특성에 미치는 영향

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### Effect of Fluorine Substitution on the Physical and Optical Characteristics of BDT-ttTPD Copolymers for Organic Semiconductors

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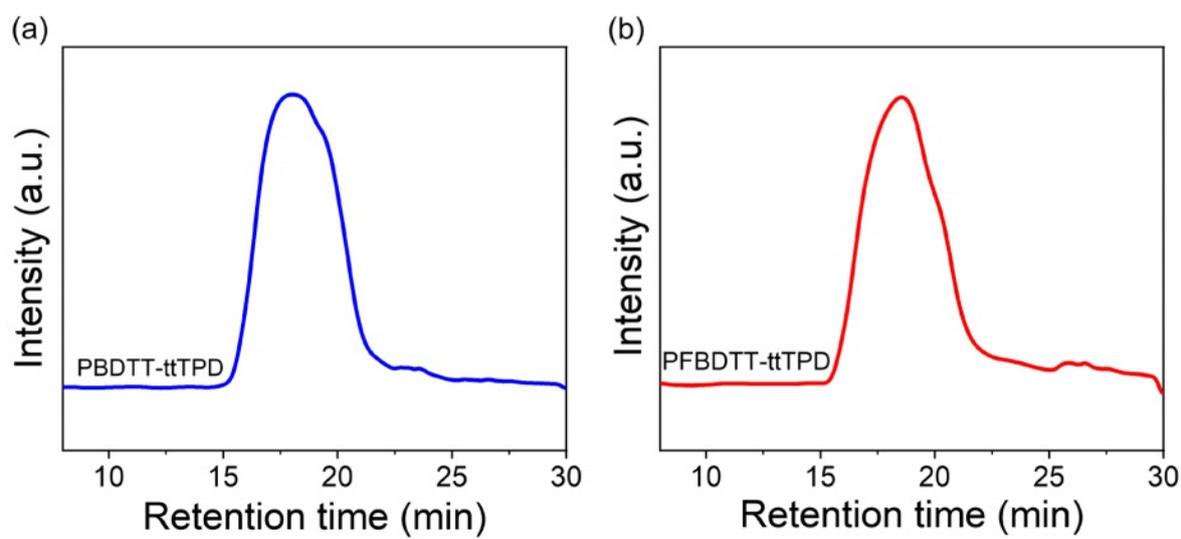
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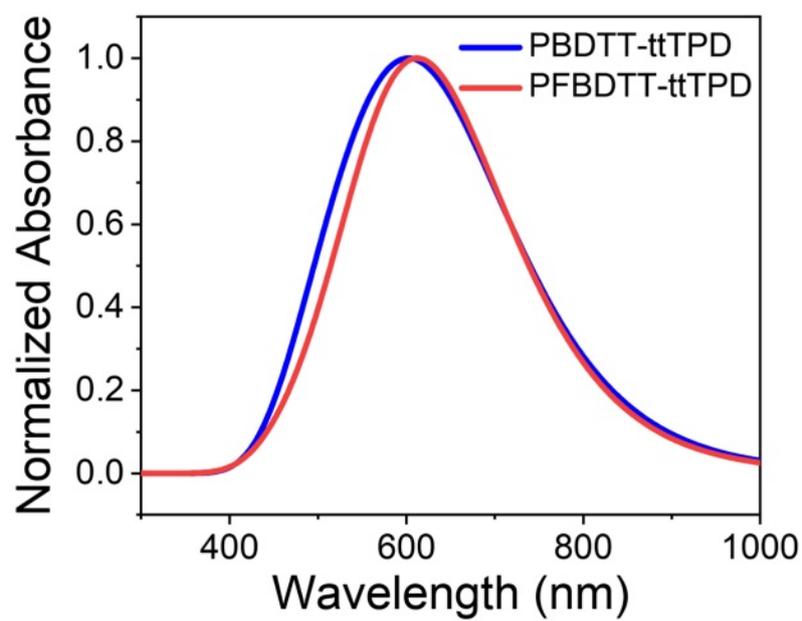


**Figure S1.** GPC results of (a) **PBDTT-ttTPD** and (b) **PFBDTT-ttTPD**.

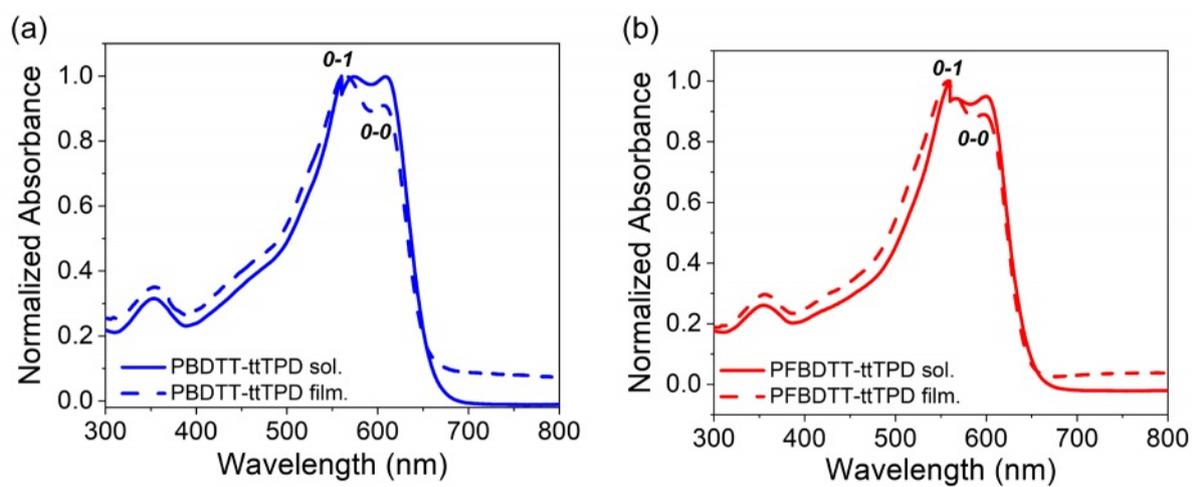
**Table S1. GPC results of PBDTT-ttTPD and PFBDTT-ttTPD**

Polymer	$M_n^a$ (g/mol)	$M_w^b$ (g/mol)	PDI <sup>c</sup>	Retention time (min)
<b>PBDTT-ttTPD</b>	84,293	484,160	5.74	18.020
<b>PFBDTT-ttTPD</b>	66,890	366,844	5.48	18.533

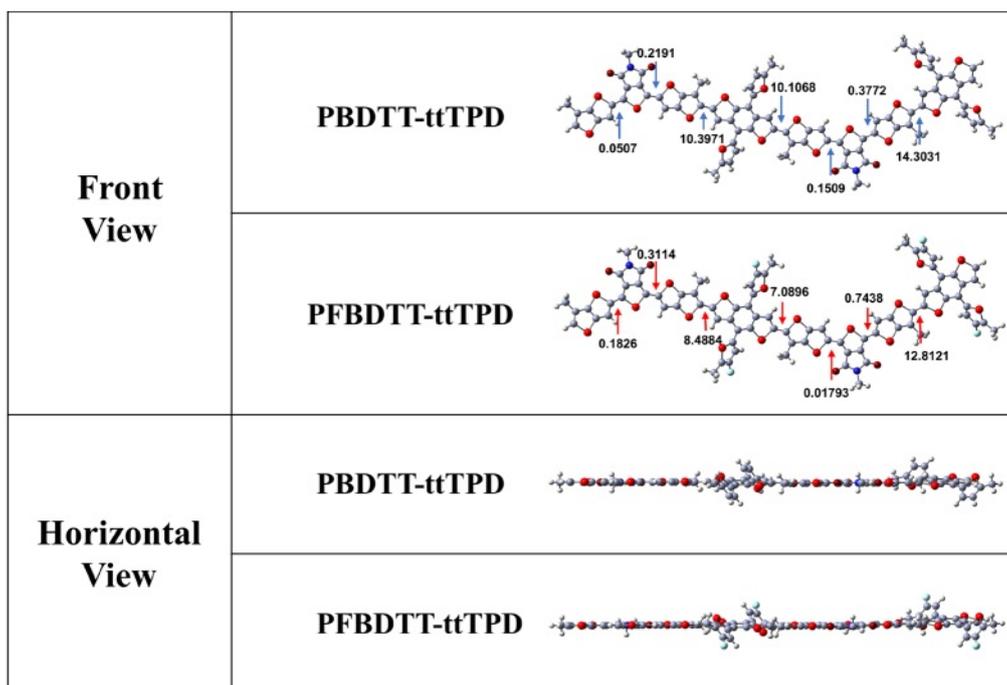
<sup>a</sup>Number-average molecular weight ( $M_n$ ). <sup>b</sup>Weight-average molecular weight ( $M_w$ ). <sup>c</sup>Polydispersity index ( $M_w/M_n$ ) determined by means of GPC with THF as an eluent based on polystyrene calibration.



**Figure S2.** Calculated normalized UV/Vis spectra of **PBDTT-ttTPD** and **PFBDTT-ttTPD**.



**Figure S3.** Normalized UV/Vis spectra of **PBDTT-ttTPD** and **PFBDTT-ttTPD** in dilute chloroform solution and as thin films on a quartz plate (a) and (b), respectively.



**Figure S4.** Calculated front view and horizontal view of the model monomer for **PBDTT-ttTPD** and **PFBDTT-ttTPD** in the ground state.