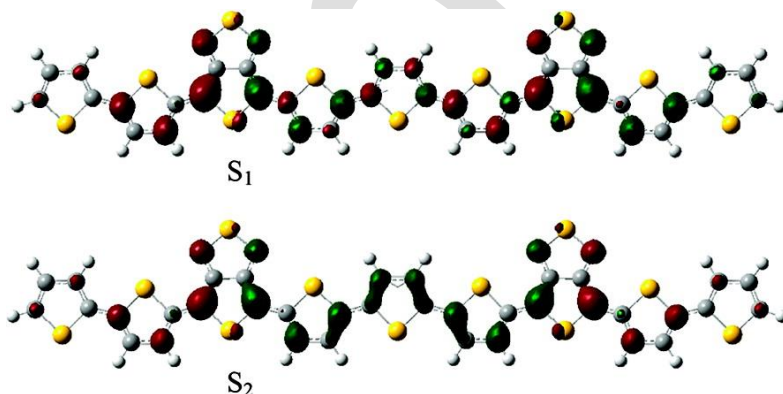
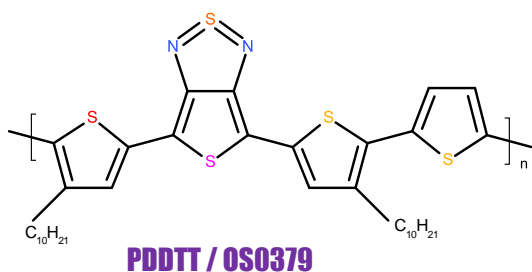


## PDDTT (Absorption beyond 1000 nm)

Organic Nano Electronic (ONE=1) Materials for these who understand quality

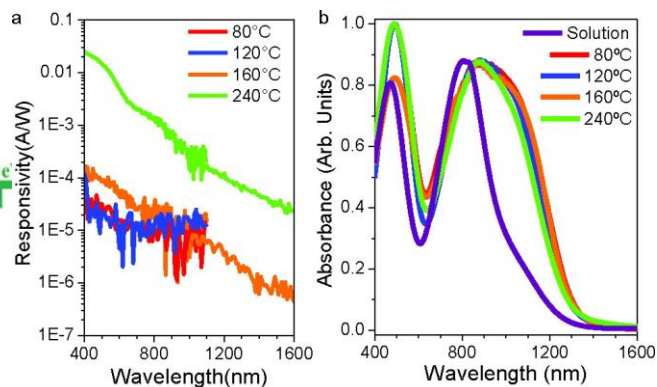
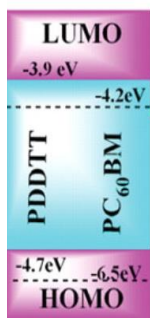
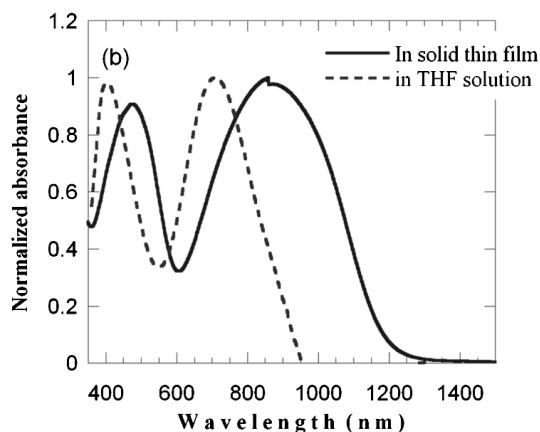


CAS Registry Number: 914613-37-9

Formula:  $(C_{36}H_{46}N_2S_5)_n$

Chemical Name: Poly[thieno[3,4-*c*][1,2,5]thiadiazole-2-*S*<sup>IV</sup>-4,6-diyl(3,3''-didecyl[2,2':5',2''-terthiophene]-5,5''-diyl)]

Transition densities of the PDDTT, where the green and red colors stand for the hole and electron, respectively. (DOI: 10.1021/jp2040696)



More References: Xiong Gong et al. Science 2009; 325:1665  
Yangjun Xia; et al ; *Appl. Phys. Lett.* 2006, 89, 081106

### 1M -Technical Specifications

Physical appearance: purple black solid

Molecular Weight: MW: 50-100K, PDI: 2-3

Solubility: Soluble in CHCl<sub>3</sub>, and aromatic solvents

(a) Photoreponsivities and (b) absorption spectra for PDDTT films annealed at various temperatures, with the PDDTT solution spectrum in ODCB plotted in (b).  
DOI: 10.1021/ja207312f

