

Supporting information for:

Diselenogermole as a novel donor monomer for low band gap polymers

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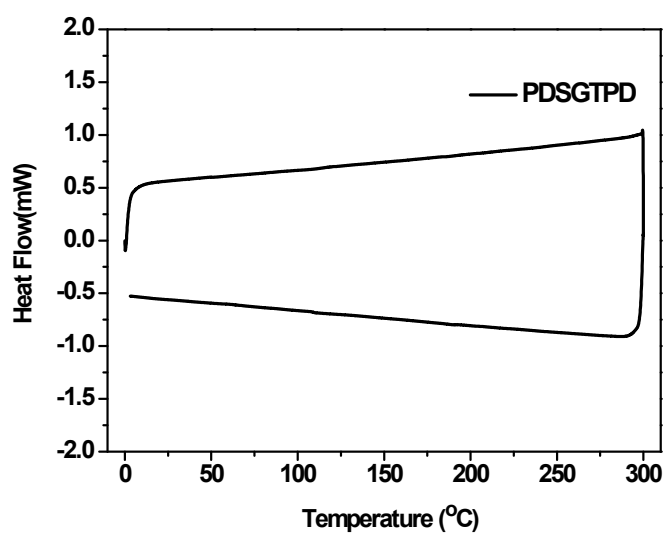


Figure S1. DSC heating and cooling traces (second cycle) of **PDSGTPD** at a scanning speed of 10 °C/min under N₂ (Endo up).

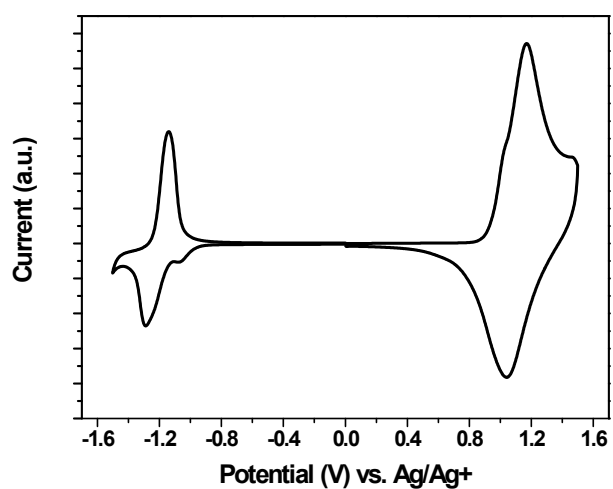


Figure S2. Cyclic voltammograms of **PDSGTPD** as a thin film in 0.1 M Bu₄NPF₆ solution in acetonitrile at a scan rate of 0.05 V s⁻¹.

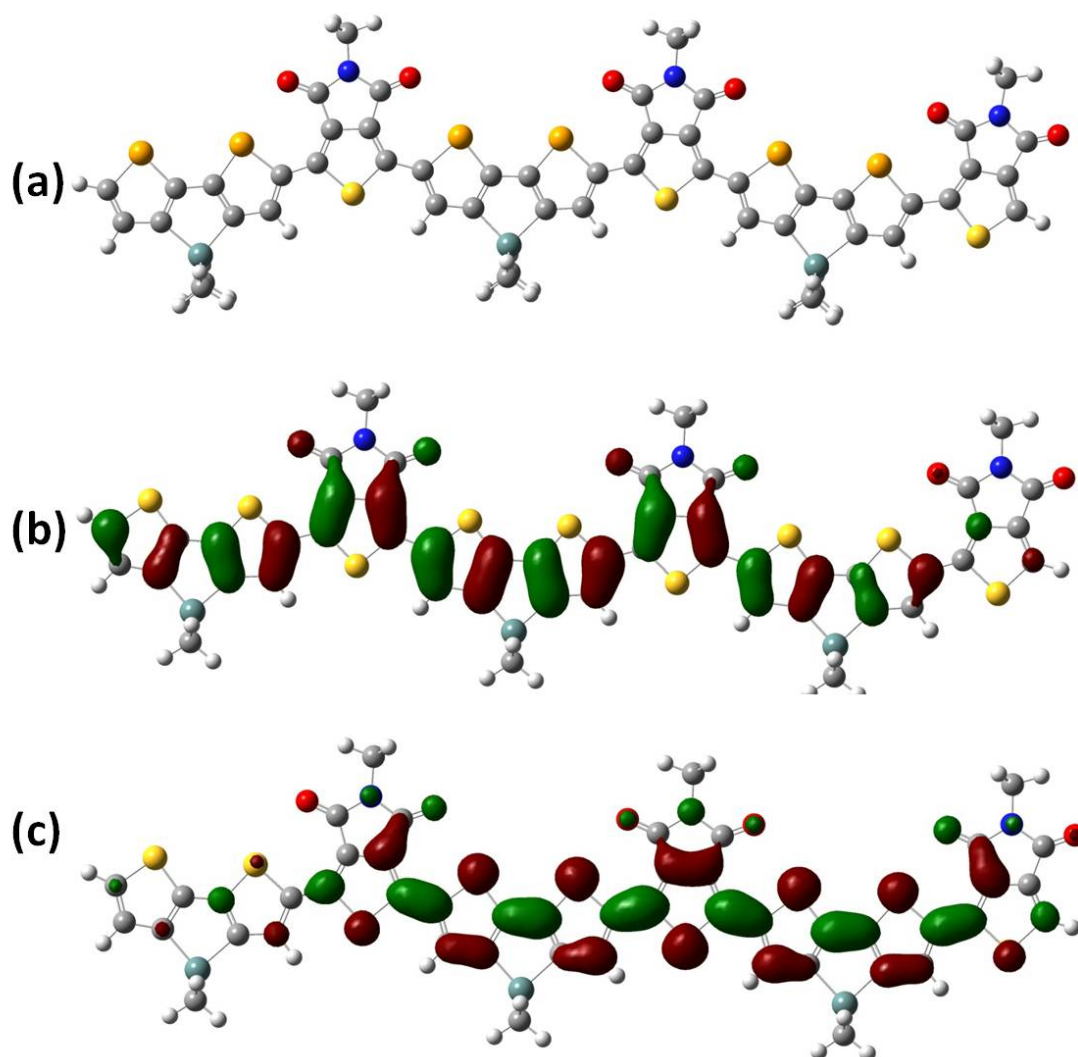


Figure S3. (a) Energy-minimized conformation (B3LYP/6-31G*) (b) HOMO and (c) LUMO distributions of a methyl substituted **DTGTPD** trimer.

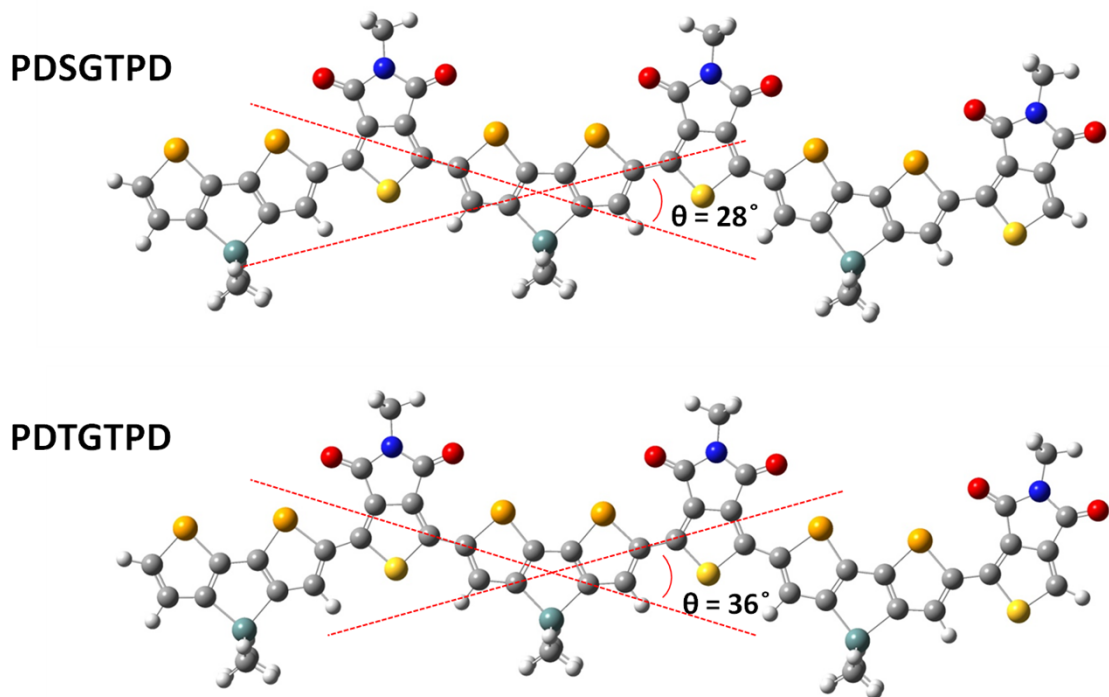


Figure S4. Energy minimised conformations, showing deviations from linearity for **DSGTPD** and **DTGTPD** trimers.

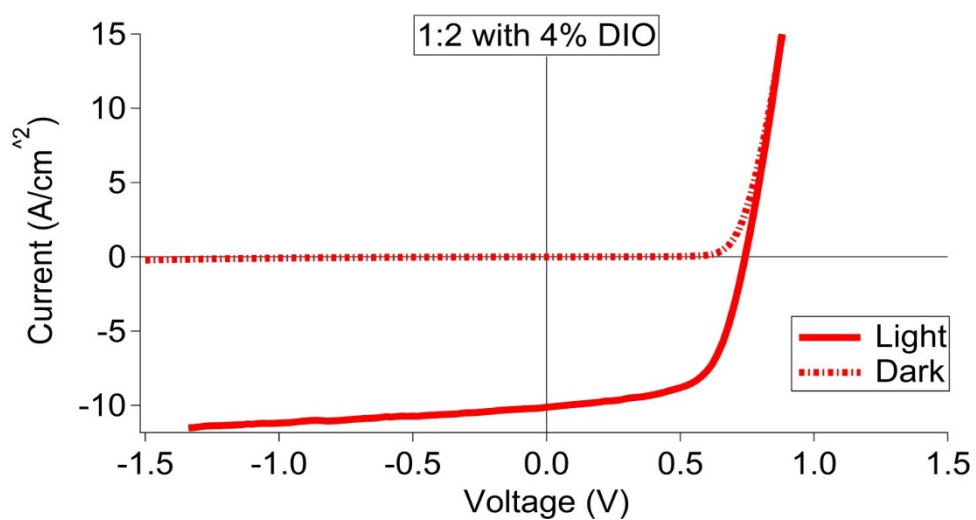


Figure S5. J - V curve of polymer solar cells based on **PDSGTPD**:PC₇₁BM blends (1:2 wt%) with 4% DIO in a conventional (ITO/PEDOT:PSS/ **PDSGTPD**: PC₇₁BM /LiF/Al) structure.