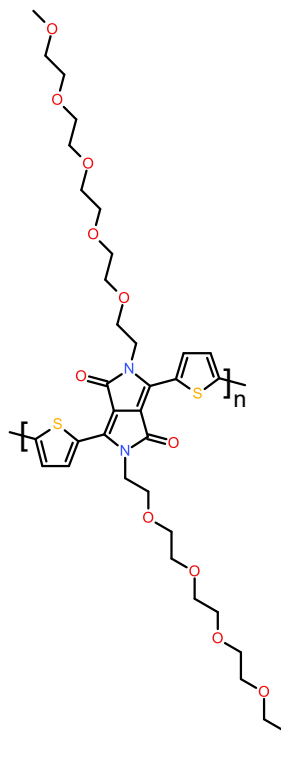


Certificate of Analysis

1M Material: HOMO-gDPP

Chemical Family: Ion-electron conducting
conjugate polymer

Chemical Structure: See right



Lot No: YY29246CH

Appearance: Deep green-blue solid

Molecular weight: Mw ~70K, Mn~35K, PDI~2.0 (Estimated)

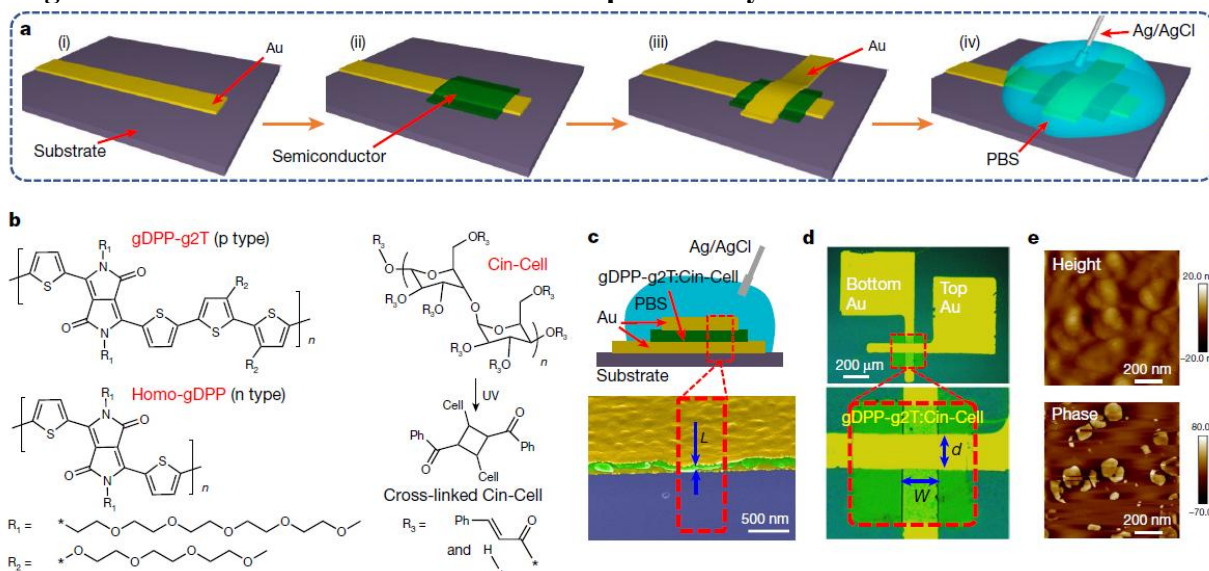
Solubility: Soluble in chloroform, toluene, CB and other selected solvents

Purity: 99% (NMR of monomers)

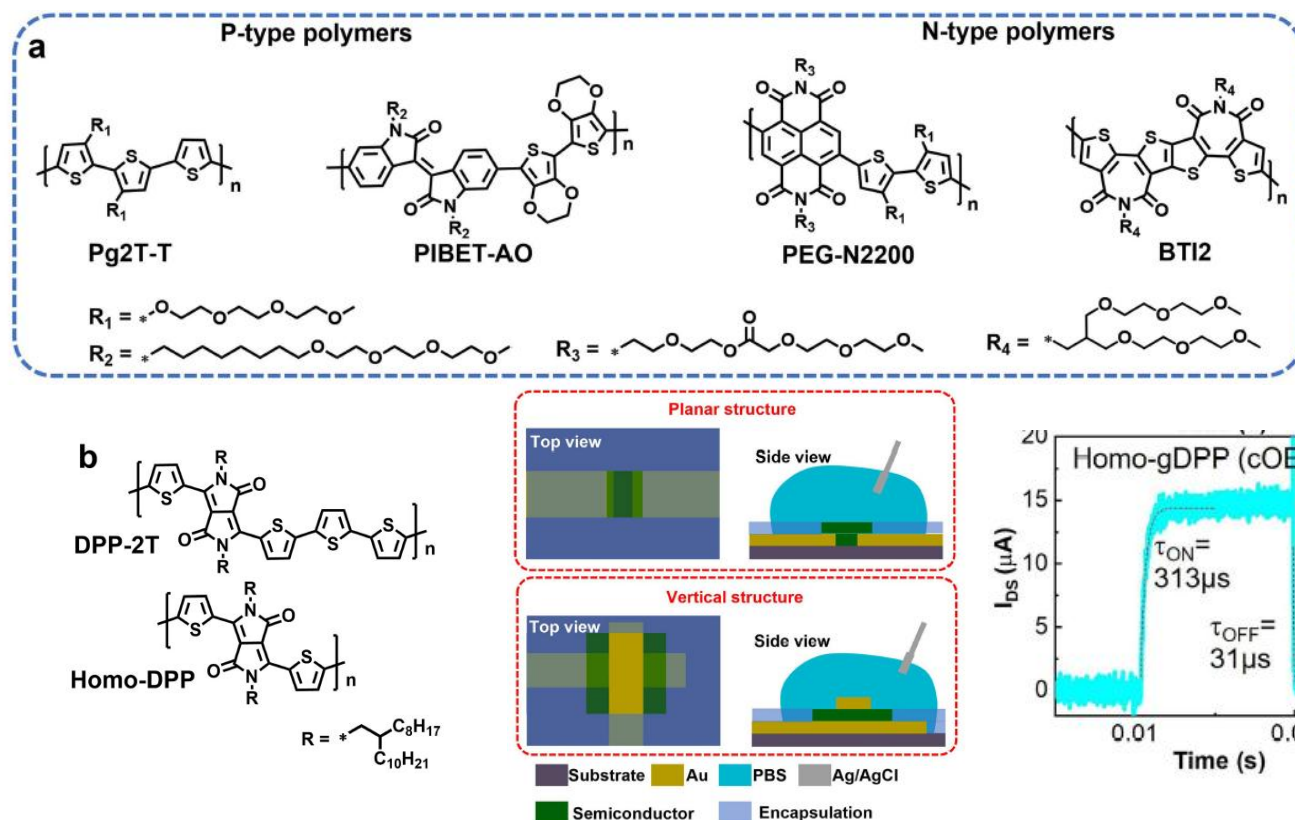
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