TUMO Energy [eV] LUMO **LUMO** НОМО НОМО **M**₁ HOMO

Octatetraene

3.1 eV

400 nm

Visible

Polyacetylene

>1.5 eV

Up to 800 nm

Visible-IR

Ethylene

6.7 eV

185 nm

UV

Butadiene

5.8 eV

215 nm

UV