Fluorene polymer device hole Mobility TOF 1. Mobility

$$\begin{split} \mu_{P} &= 4*10^{-4} \ (5*10^{5} \ V/cm) \\ \mu_{P} &= 3*10^{-4} \ (4*10^{4} \ V/cm) \\ \mu_{P} &= 4.2*10^{-4} \ (8*10^{5} \ V/cm) \end{split}$$

Mobility weak electric field dependence chemical regularity purity high degree .

- Charge carrier mobility
- (i) Relation to the charge balance factor for injection and transport of electrons and holes to the recombination zone.
- (ii) Concerns the attainment of the high brightness required for passive matrix addressed displays.

2. Time of Flight

The large absorption coefficient, $\alpha = 10^{5}$ /cm, typical for these materials (conjugated polymer), means that the excitation pulse is absorbed within a distance of order 100nm of the illuminated electrode, and thus, that the photogenerated carrier packet has similar extension.

Typical field E = 1.6*105 V/cm Typical temp. = 300K