

Supplementary Data

All-aromatic Liquid Crystal Triphenylamine-based Poly(azomethine)s as Hole Transport Materials for Optoelectronic Applications

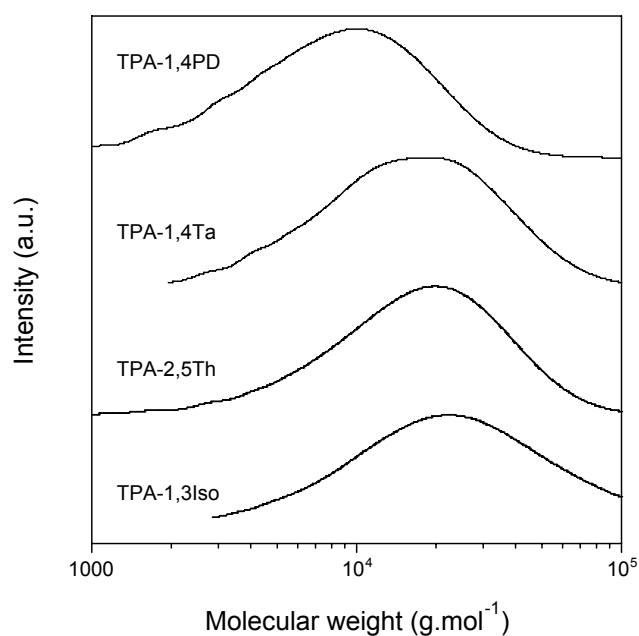
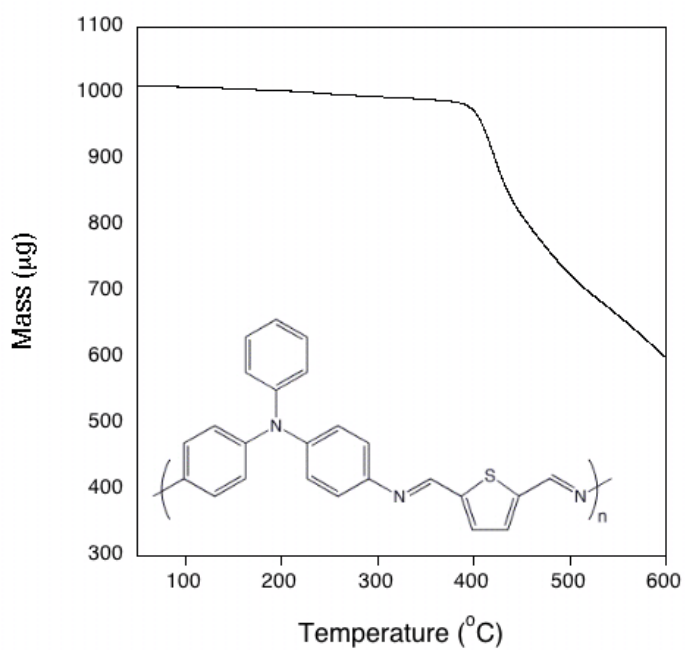


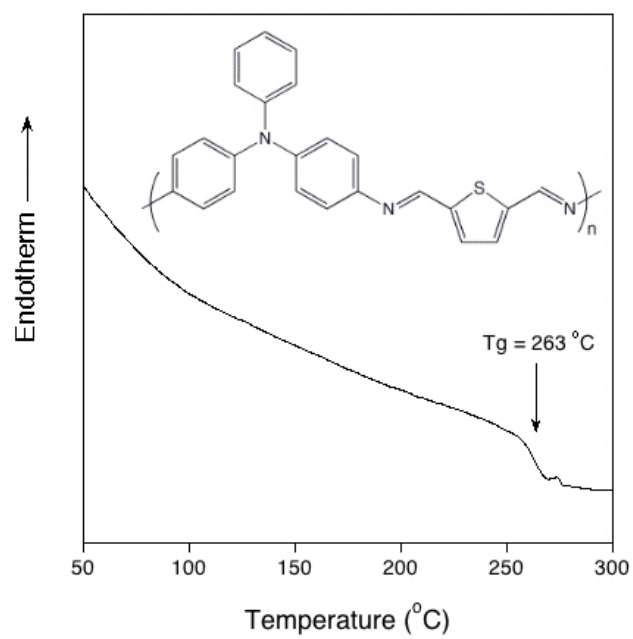
Figure I. Molecular weight distribution curves of the TPA-based polyazomethines.

Polymer	M_n (g mol ⁻¹)	M_w (g mol ⁻¹)	PD	TGA, 5% wt loss (N ₂) (°C)	DSC T_g (°C)
TPA-14PD	5700	10500	1.86	450	301
TPA-14Ta	11700	20500	1.74	449	310
TPA-25Th	11800	21300	1.80	405	263
TPA-13Iso	16000	57500	3.57	452	251

Table I. Polymer molecular weight data and thermal analysis data (recorded at $10\text{ }^{\circ}\text{C min}^{-1}$). The molecular weight data were calculated relative to polystyrene standards. *N*-methylpyrrolidone (NMP) with 5mM of LiBr was used as the eluent at a flow rate of 0.5 mL min^{-1} at 60°C .



A



B

FIGURE II. *A-TGA thermogram of TPA-25Th recorded under a nitrogen atmosphere at 10 °C min⁻¹; B-DSC trace of TPA-25Th; first heat recorded at 10 °C min⁻¹.*