

Supporting Information for

Highly stable electrochromic and electrofluorescent dual-switching polyamides containing bis(diphenylamino)-fluorene moieties

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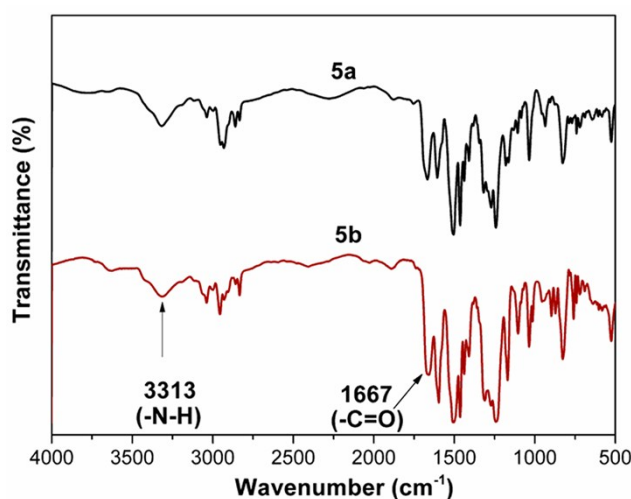


Fig. S1 FTIR spectra of the polyamides.

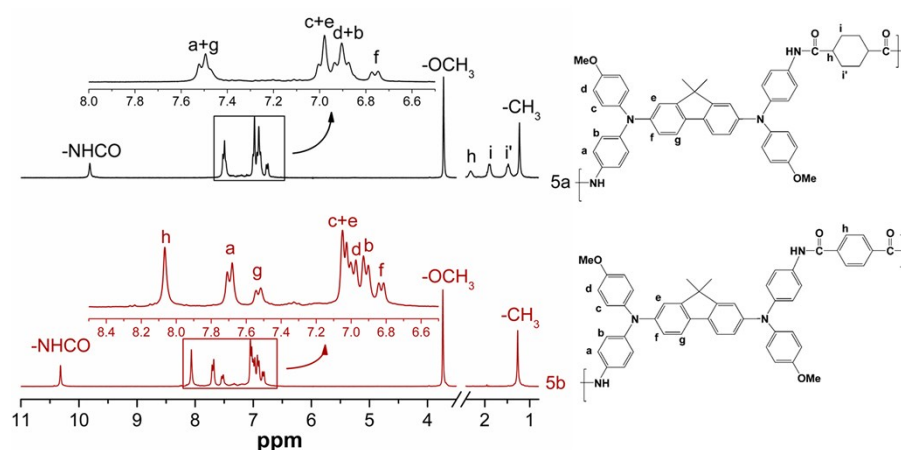


Fig. S2 ^1H NMR spectra of the polyamides.

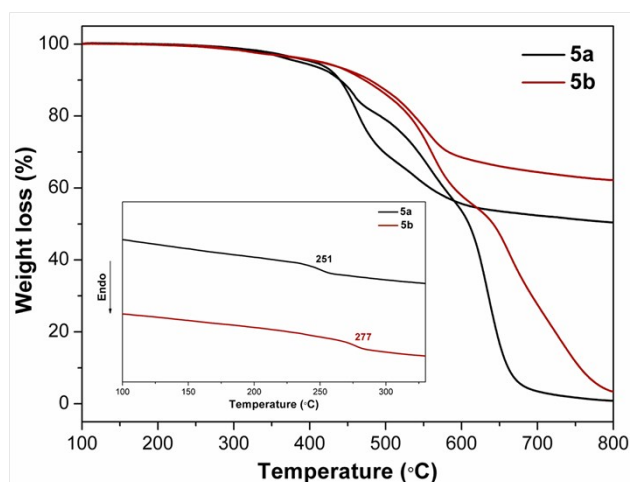


Fig. S3 TGA and DSC (inset) curves of the polyamides.

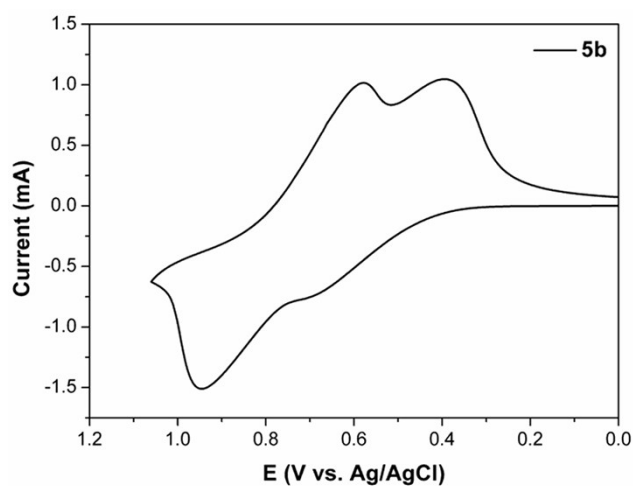


Fig. S4 Cyclic voltammetric diagrams of polyamide 5b in CH₃CN containing 0.1M TBAP at a scan rate of 50 mV s⁻¹.

Table S1 Inherent Viscosities, Molecular Weights and Solubilities of the polymers.

Sample	$\eta_{inh}(dL/g)^a$	GPC ^b			Solvents ^c						
		M _w	M _n	PDI	NMP	DMAc	DMF	DMSO	THF	CHCl ₃	CH ₃ CN
5a	0.73	88300	59400	1.48	++	++	++	++	+-	--	--
5b	0.54	77000	57400	1.34	++	++	++	++	--	--	--

^a Inherent viscosities were measured at a concentration of 0.5 g/ dL in DMAc at 25°C; ^b Relative to polystyrene standard, using DMF as the eluent; ^c Qualitative solubilities were tested with 10 mg of polymers in 1mL of solvent. ++, soluble at room temperature; +-, partially soluble; --, insoluble even on heating.