Supporting Information

Electrically Programmable Digital Memory Behaviors Based on Novel Functional Aromatic Polyimide/TiO$_2$ Hybrids with High ON/OFF Ratio

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Table S1. Inherent Viscosities and GPC Data of 3SOH-6FPI.

<table>
<thead>
<tr>
<th>Polymer</th>
<th>(\eta_{\text{inh}}^a) (dL/g)</th>
<th>(M_w^b)</th>
<th>(M_n^b)</th>
<th>PDI(^c)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3SOH-6FPI</td>
<td>0.49</td>
<td>103200</td>
<td>52800</td>
<td>1.95</td>
</tr>
</tbody>
</table>

\(^a\) Measured at a polymer concentration of 0.5 g/dL in DMAc at 30 \(^\circ\)C.

\(^b\) Calibrated with polystyrene standards, using NMP as the eluent at a constant flow rate of 0.5 mL/min at 40 \(^\circ\)C.

\(^c\) Polydispersity index \((M_w/M_n)\).

Table S2. Solubility\(^a\) of 3SOH-6FPI.

<table>
<thead>
<tr>
<th>Polymer</th>
<th>Solvents</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NMP</td>
</tr>
<tr>
<td>3SOH-6FPI</td>
<td>++</td>
</tr>
</tbody>
</table>

\(^a\) The qualitative solubility was tested with 10 mg of a sample in 1 mL of stirred solvent. (++) soluble at room temperature, (+) soluble on heating, (+−) partial soluble on heating, (−) insoluble even on heating.