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Highly Stable Copolyimides for Second-Order Nonlinear Optics

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Supplemental Materials

1. NMR data for the polyimides **PI 1** and **PI 2-6**.

PI 1. ^1H NMR (CDCl_3 , ppm): δ 1.06 (s, $-\text{CH}_2\text{CH}_3$, 3 H), 3.34 (s, $-\text{CH}_2\text{CH}_3$, 2 H), 3.71 (s, $-\text{CH}_2\text{CH}_2\text{O}-$, 2 H), 4.23 (s, $-\text{CH}_2\text{CH}_2\text{O}-$, 2 H), 6.62 (s, ArH, 2 H), 7.16 (s, ArH, 1 H), 7.19 (s, ArH, 1 H), 7.34 (s, ArH, 1 H), 7.67 (s, ArH, 2 H), 7.90 (m, ArH), 8.19 (s, ArH, 2 H).

PI 2-6. ^1H NMR (CDCl_3 , ppm): δ 1.06 (s, $-\text{CH}_2\text{CH}_3$), 3.34 (s, $-\text{CH}_2\text{CH}_3$), 3.72 (s, $-\text{CH}_2\text{CH}_2\text{O}-$), 4.23 (s, $-\text{CH}_2\text{CH}_2\text{O}-$), 6.62 (s, ArH), 7.16 (s, ArH), 7.19 (s, ArH), 7.34 (s, ArH), 7.57 (s, ArH), 7.67 (s, ArH), 7.90 (m, ArH), 7.98 (m, ArH), 8.19 (s, ArH).

2. NMR spectra (see page 2).

3. FTIR spectra (see page 3).



