

Supplementary Information

for

**Syntheses of hyperbranched liquid crystalline biopolymers with
strong adhesion from phenolic phytomonomers**

Siqian Wang, Daisaku Kaneko, Kai Kan, Xin Jin, and Tatsuo Kaneko*

*School of Materials Science, Japan Advanced Institute of Science and Technology,
1-1Asahidai, Nomi, Ishikawa 923-1292, Japan*

Tel:+81-761-51-1633, Fax:Tel:+81-761-51-1635, E-mail:kaneko@jaist.ac.jp

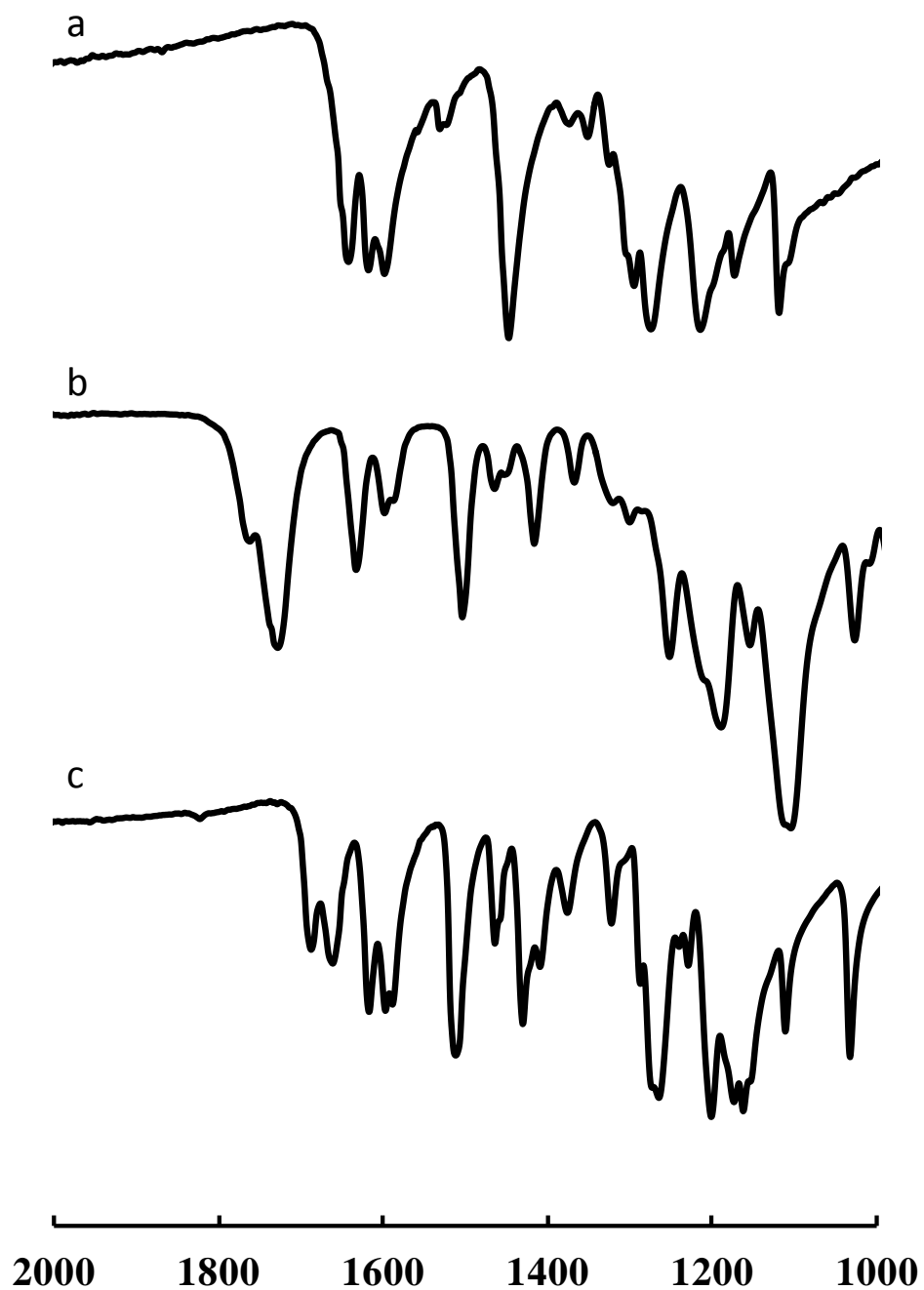


Fig. S1 Representative infrared spectra of (a) MHCA. (b) poly(DHCA-*co*-MHCA) with an in-feed MHCA composition of 60% . (c) DHCA

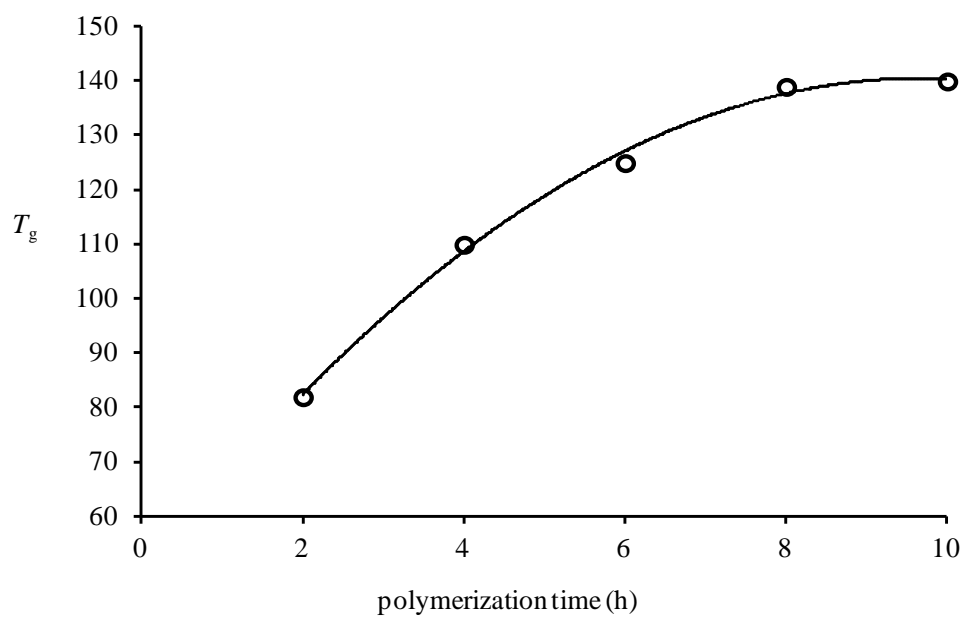


Fig. S2. T_g versus polymerization time in poly(DHCA-*co*-MHCA) with an in-feed MHCA composition, C_{MHCA} , of 60 mol%

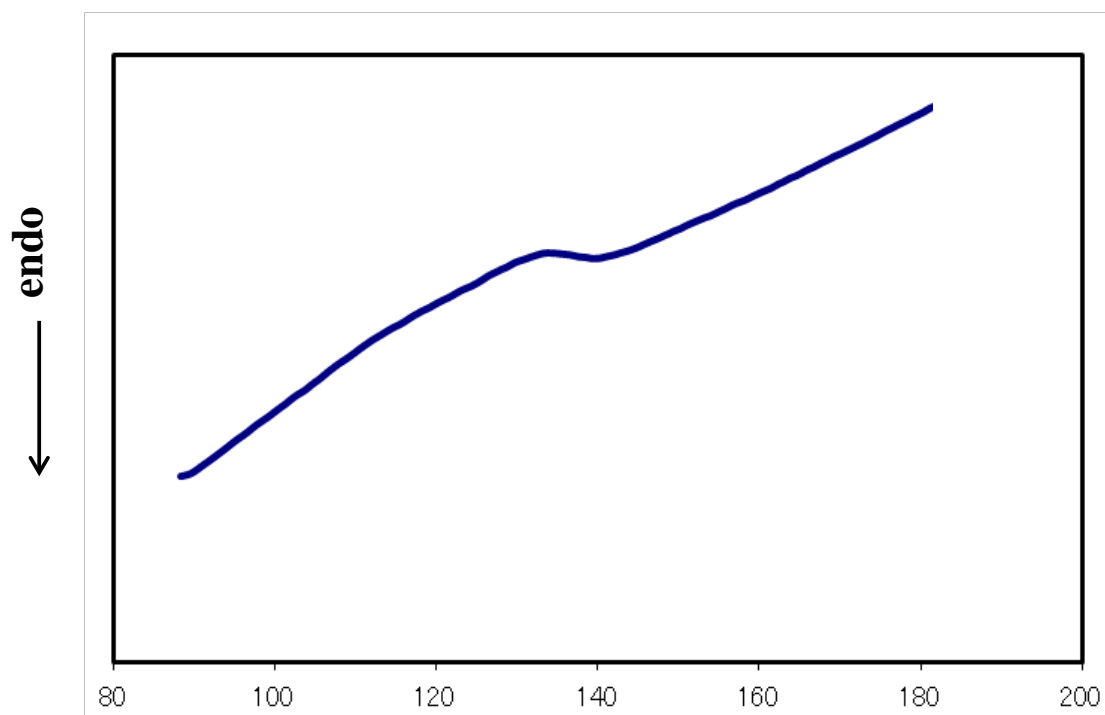


Fig. S3 Representative curve of differential scanning calorimetry (DSC) for poly(MHCA-*co*-DHCA) with a C_{HHCA} of 60 % prepared in the presence of Na_2HPO_4 (1 w%) at 200 °C, 8h.

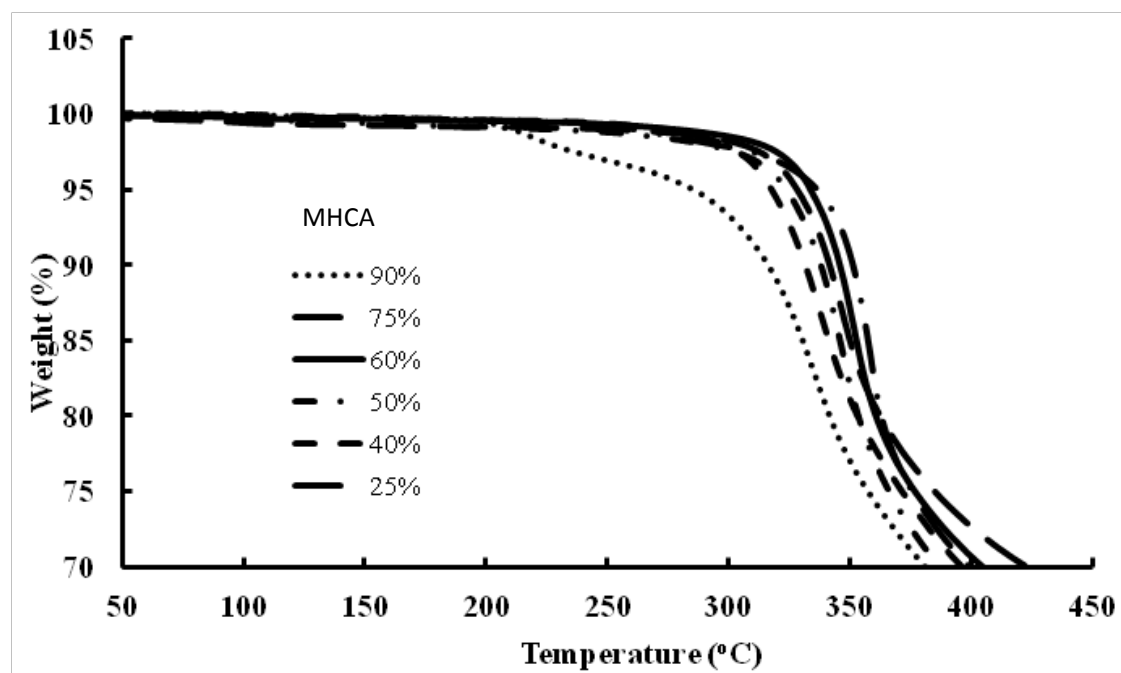


Fig. S4 Thermogravimetric curves of poly(DHCA-*co*-MHCA)s with various MHCA compositions.